(FILE 'CAPLUS' ENTERED AT 14:00:35 ON 05 MAR 1999)

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(FILE 'CAPLUS' ENTERED AT 14:00:35 ON 05 MAR 1999)	-key terms
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L2 49 SEA FILE=CAPLUS ABB=ON 120 THE CUPOMOSOM?	
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L4 14 SEA FILE=CAPLUS ABB=ON PLU=ON L3 AND (MORPH?) MUTAGEN? OR MUTANT OR POLYMORPH? OR POLY MORPH?)	
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TAXIND 1 OF 14 CAPLUS COPYRIGHT 1999 ACS	•
AROLCE CAPIUS	
AN 1998:672566 CARDON DN 129:286742 TI Fsh16 gene and methods and compositions for the diagnosis and TI Fsh16 gene and methods and compositions for the diagnosis and	
TI Fsh16 gene and methods and compositor	
treatment of neuropsystem	
SO PCT Int. Appl., 93 pp.	
CODEN: PIXXD2 IN Chen, Hong; Freimer, Nelson B.	
IN Chen, Hong, Total DATE APPLICATION NO. DATE	
AI WO 98-US6210 19980327 AU 98-67867 19980327 APPLICATION NO. DATE	
PATENT NO. KIND DATE	
71 19981001 WO 98-030217	
PI WO 9842726 AT 19981001 W: AU, CA, JP RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NI	١,
PT, SE 19981020 AU 98-67867	
An 386,861	
PY 1998 1998 AB The present invention relates to the mammalian fsh16 gene, a nove	1
AB The present invention relative gene assocd. with bipolar affective gene assocd. The invention	
gene assocd. with bipolar disorder (BAD) in humans. The invention disorder (BAD) in humans.	nes
encompasses isnie nacional thereof, fsh16 gene products and and another gent gent gent gent gent gent gent gent	es .
or degenerate variants thereof, fsh16 gene products contg. directed against such gene products, cloning vectors contg. directed against such gene mols., and hosts that have been genetically	
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engineered to express such mols. The invention rational engineered to express such express su	nts
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methods for the identification with the treatment of fsh16 disorders and neuropsychiatric disorder in the treatment of fsh16 disorders for the diagnostic evaluates to methods for the diagnostic evaluates and prognosis of fsh16 disorders and	ion,
in the treatment of relates to methods for the diagnostro	•
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neuropsychiatric disorders including schizophrenia, attention deficit disorder, a schizoaffective disorder, a bipolar affective disorder or a unipolar affective disorder, and to methods and compns. for the treatment of these disorders.

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ANSWER 2 OF 14 CAPLUS COPYRIGHT 1999 ACS
L4
     1998:672564 CAPLUS
ΔN
     Fsh15w6 gene and methods and compositions for the diagnosis and
DN
     treatment of neuropsychiatric disorders
TI
     PCT Int. Appl., 94 pp.
so
     CODEN: PIXXD2
     Chen, Hong; Freimer, Nelson B.
IN
                      DATE
     APPLICATION NO.
      _____
                       19980327
     WO 98-US6211
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                       19970327
     US 97-828007
                       19980327
      AU 98-67868
                                                             DATE
                                            APPLICATION NO.
                            DATE
                       KIND
      PATENT NO.
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                                                             19980327
                                            WO 98-US6211
                             19981001
                        A1
      WO 9842724
          RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
          W: AU, CA, JP
                                                             19970327
              PT, SE
                                            US 97-828007
                             19990202
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                        Α
      US 5866412
                                            AU 98-67868
                             19981020
                        Α1
      AU 9867868
      1998
  PΥ
      1999
      The present invention relates to the mammalian fsh15w6 gene, a novel
       gene assocd. with bipolar affective
  AB
       disorder (BAD) in humans. The invention
       encompasses fsh15w6 nucleic acids, recombinant DNA mols., cloned
       genes or degenerate variants thereof, fsh15w6 gene products and
       antibodies directed against such gene products, cloning vectors
       contg. mammalian fsh15w6 gene mols., and hosts that have been
       genetically engineered to express such mols. The invention further
       relates to methods for the identification of compds. that modulate
       the expression of fsh15w6 and to using such compds. as therapeutic
       agents in the treatment of fsh15w6 disorders and neuropsychiatric
       disorders. The invention also relates to methods for the diagnostic
        evaluation, genetic testing and prognosis of fsh15w6
        disorders and neuropsychiatric disorders including
        schizophrenia, attention deficit disorder, a
        schizoaffective disorder, a bipolar
        affective disorder or a unipolar affective
        disorder, and to methods and compns. for the treatment of
                                 Searcher : Shears
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these disorders.

PCT Int. Appl., 94 pp.

SO

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ANSWER 3 OF 14 CAPLUS COPYRIGHT 1999 ACS
L4
     1998:672563 CAPLUS
AN
    Fsh22 gene and methods and compositions for the diagnosis and
DN
TI
     treatment of neuropsychiatric disorders
     PCT Int. Appl., 93 pp.
SO
     CODEN: PIXXD2
     Chen, Hong; Freimer, Nelson B.
IN
     APPLICATION NO. DATE
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                      19980327
     WO 98-US6209
ΑΤ
                      19980327
     AU 98-67866
                                                            DATE
                                           APPLICATION NO.
                      KIND DATE
     PATENT NO.
                                           _____
                                           WO 98-US6209
                                                            19980327
                            19981001
                       A1
     WO 9842723
PT
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE
                                                             19980327
                                            AU 98-67866
                             19981020
                        A1
      AU 9867866
      1998
 PY
      The present invention relates to the mammalian fsh22 gene, a novel
 AΒ
      gene assocd. with bipolar affective
      disorder (BAD) in humans. The invention
      encompasses fsh22 nucleic acids, recombinant DNA mols., cloned genes
      or degenerate variants thereof, fsh22 gene products and antibodies
      directed against such gene products, cloning vectors contg.
      mammalian fsh22 gene mols., and hosts that have been genetically
      engineered to express such mols. The invention further relates to
      methods for the identification of compds. that modulate the
      expression of fsh22 and to using such compds. as therapeutic agents
      in the treatment of fsh22 disorders and neuropsychiatric disorders.
      The invention also relates to methods for the diagnostic evaluation,
      genetic testing and prognosis of fsh22 disorders and
       neuropsychiatric disorders including schizophrenia,
       attention deficit disorder, a schizoaffective
       disorder, a bipolar affective
       disorder or a unipolar affective disorder
       , and to methods and compns. for the treatment of these
       ANSWER 4 OF 14 CAPLUS COPYRIGHT 1999 ACS
  L4
       1998:672479 CAPLUS
  ΝA
       Methods and compositions for the diagnosis and treatment of
  DN
  TI
       neuropsychiatric disorders
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Searcher : Shears

308-4994

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CODEN: PIXXD2
    Chen, Hong; Freimer, Nelson B.
IN
    APPLICATION NO. DATE
     _____
                      19980327
     WO 98-US6208
AΙ
                      19980327
     AU 98-67865
                                           APPLICATION NO.
                            DATE
                      KIND
     PATENT NO.
                                                            19980327
     _____
                                           WO 98-US6208
                            19981001
                       A1
     WO 9842362
PΙ
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
         W: AU, CA,
             PT, SE
                                                            19980327
                                           AU 98-67865
                            19981020
                       Α1
     AU 9867865
     1998
PY
     The present invention relates to the mammalian fsh05 gene, a novel
     gene assocd. with bipolar affective
AB
      disorder (BAD) in humans. The invention
      encompasses fsh05 nucleic acids, recombinant DNA mols., cloned genes
      or degenerate variants thereof, fsh05 gene products and antibodies
      directed against such gene products, cloning vectors contg.
      mammalian fsh05 gene mols., and hosts that have been genetically
      engineered to express such mols. The invention further relates to
      methods for the identification of compds. that modulate the
      expression of fsh05 and to using such compds. as therapeutic agents
      in the treatment of fsh05 disorders and neuropsychiatric disorders.
      The invention also relates to methods for the diagnostic evaluation,
      genetic testing and prognosis of fsh05 disorders and
      neuropsychiatric disorders including schizophrenia,
      attention deficit disorder, a schizoaffective
      disorder, a bipolar affective
       disorder or a unipolar affective disorder
       , and to methods and compns. for the treatment of these
       disorders.
       ANSWER 5 OF 14 CAPLUS COPYRIGHT 1999 ACS
  L4
       1998:582231 CAPLUS
  AN
       No evidence for significant linkage between bipolar
  DN
       affective disorder and chromosome
       18 pericentromeric markers in a large series of multiplex
       extended pedigrees
       Am. J. Hum. Genet. (1998), 62(4), 916-924
   SO
       CODEN: AJHGAG; ISSN: 0002-9297
       Knowles, James A.; Rao, Peter A.; Cox-Matise, Tara; Loth, Jo Ellen;
        De Jesus, Gracielle M.; Levine, Laura; Das, Kamna; Penchaszadeh,
   AU
        Graciela K.; Alexander, Joyce R.; Lerer, Bernard; Endicott, Jean;
        Ott, Jurg; Gilliam, T. Conrad; Baron, Miron
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Searcher : Shears

1998

PΥ

308-4994

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Bipolar affective disorder (BP
    ) is a major neuropsychiatric disorder with high
AΒ
    heritability and complex inheritance. Previously reported linkage
    between BP and DNA markers in the pericentromeric region of
     chromosome 18, with a parent-of-origin effect
     (linkage was present in pedigrees with paternal transmission and
     absent in pedigrees with exclusive maternal inheritance), has been a
     focus of interest in human genetics. We reexamd. the evidence in
     one of the largest samples reported to date (1013 genotyped
     individuals in 53 unilineal multiplex pedigrees), using 10 highly
     polymorphic markers and a range of parametric and
     nonparametric analyses. There was no evidence for significant
     linkage between BP and chromosome 18
     pericentromeric markers in the sample as a whole, nor was there
     evidence for significant parent-of-origin effect (pedigrees with
     paternal transmission were not differentially linked to the
      implicated chromosomal region). Two-point LOD scores and
      single-locus sib-pair results gave some support for suggestive
      linkage, but this was not substantiated by multilocus anal., and the
      results were further tempered by multiple test effects. We conclude
      that there is no compelling evidence for linkage between BP and
      chromosome 18 pericentromeric markers in this
      sample.
      ANSWER 6 OF 14 CAPLUS COPYRIGHT 1999 ACS
 L4
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1998:293653 CAPLUS
ΑN
    Chromosomal markers and diagnostic tests for manic-depressive
DN
TI
     illness
     PCT Int. Appl., 119 pp.
SO
     Detera-Wadleigh, Sevilla D.; Gershon, Elliot S.; Badner, Judith A.;
     Goldin, Lynn R.; Berrettini, Wade H.; Yoshikawa, Takeo; Sanders,
IN
     Alan R.; Esterling, Lisa E.
     APPLICATION NO. DATE
                      19971028
     WO 97-US19381
AΙ
                      19971028
     AU 98-51509
                                           APPLICATION NO. DATE
                     KIND DATE
     PATENT NO.
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                                                            19971028
                                           WO 97-US19381
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
                            19980507
      WO 9818963
 PΙ
             DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG,
              KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,
              MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
              TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD,
          RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
              FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
                               Searcher : Shears 308-4994
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CM, GA, GN, ML, MR, NE, SN, TD, TG 19971028 AU 98-51509 19980522 Δ1. AU 9851509

1998 PY

Methods and compns. are provided for detg. a genotype assocd. with increased susceptibility to manic-depressive illness. The genotype AB is detd. using markers for a region of chromosome 18 exhibiting linkage disequil. with manic-depressive illness. The invention also provides for a novel myo-inositol monophosphatase protein encoded for on chromosome 18. Using direct cDNA selection and phys. mapping by PCR, 25 novel, chromosome 18-specific cDNAs expressed in infant brain have been identified and positionally cataloged. cDNA for a gene assocd. with manic-depression was identified. Based on sequence homol. and presence of protein motifs, the gene is proposed to encode myo-inositol monophosphatase. The promoter region of the gene was also isolated and sequenced.

ANSWER 7 OF 14 CAPLUS COPYRIGHT 1999 ACS L4

1998:162390 CAPLUS $\mathbf{N}\mathbf{A}$

DN

Closing in on genes for manic-depressive illness and schizophrenia

Neuropsychopharmacology (1998), 18(4), 233-242 ΤI SO

CODEN: NEROEW; ISSN: 0893-133X

Gershon, Elliot S.; Badner, Judith A.; Goldin, Lynn R.; Sanders, Alan R.; Cravchik, Anibal; Detera-Wadleigh, Sevilla D. ΑU

A review, with 64 refs. Advances in the human genetic map, and in PΥ genetic anal. of linkage and assocn. in complex inheritance traits, AΒ have led to genetic progress in the major psychoses. For chromosome 6 in schizophrenia, and chromosomes 18 and 21 in manic-depressive illness, there are reports of linkage in several independent data sets. These are small effect genes, best detected with affected-relative-pair linkage methods. Assocn. with candidate genes is an alternative strategy to uncovering susceptibility genes for these illnesses, but convincing assocns. remain to be demonstrated. New clin. and lab. investigation methods are being developed. Testing every gene in the human genome for assocn. with illness has recently been proposed. This would require further progress in characterizing the genome and in automated large-scale The best type of pedigree sampling for common disease studies, whether for linkage or assocn., is not yet established. An endophenotype hybrid strategy can combine genetic linkage, assocn., and pathophysiol. studies. As clin. mol. investigation methods advance, identification of disease susceptibility mutations and delineation of their pathophysiol. roles may be expected.

ANSWER 8 OF 14 CAPLUS COPYRIGHT 1999 ACS L4

1998:29510 CAPLUS ΑN

308-4994 Searcher : Shears

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DN 128:176630
TI Rapid cloning of expanded trinucleotide repeat sequences from genomic DNA
SO Nat. Genet. (1998), 18(1), 72-75
CODEN: NGENEC; ISSN: 1061-4036
AU Koob, Michael D.; Benzow, Kellie A.; Bird, Thomas D.; Day, John W.;
Moseley, Melinda L.; Ranum, Laura P. W.

PY 1998
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Trinucleotide repeat expansions have been shown to cause a no. of neurodegenerative diseases. A hallmark of most of these diseases is AΒ the presence of anticipation, a decrease in the age at onset in consecutive generations due to the tendency of the unstable trinucleotide repeat to lengthen when passed from one generation to the next. The involvement of trinucleotide repeat expansions in a no. of other diseases - including familial spastic paraplegia, schizophrenia, bipolar affective disorder and spinocerebellar ataxia type 7 (SCA7) - is suggested both by the presence of anticipation and by repeat expansion detection (RED) anal. of genomic DNA samples. The involvement of trinucleotide expansions in these diseases, however, can be conclusively confirmed only by the isolation of the expansions present in these populations and detailed anal. to assess each expansion as a possible pathogenic mutation. describe a novel procedure for quick isolation of expanded trinucleotide repeats and the corresponding flanking nucleotide sequence directly from small amts. of genomic DNA by a process of Repeat Anal., Pooler Isolation and Detection of individual clones contg. expanded trinucleotide repeats (RAPID cloning). We have used this technique to clone the pathogenic SCA7 CAG expansion from an archived DNA sample of an individual affected with ataxia and retinal degeneration.

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ANSWER 9 OF 14 CAPLUS COPYRIGHT 1999 ACS
L4
    1997:679203 CAPLUS
AN
DN
    127:327441
    Methods for detecting bipolar mood disorder
    susceptibility locus on human chromosome 18q
TI
     PCT Int. Appl., 51 pp.
SO
     Friemer, Nelson B.; Leon, Pedro; Reus, Victor I.; Sandkuijl,
IN
     Lodewijk A.; Barondes, Samuel H.
     APPLICATION NO. DATE
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                      19970327
     WO 97-US4904
AΙ
                      19970327
     AU 97-24238
                      19970822
     WO 97-US14892
                      19970822
     AU 97-41604
                                          APPLICATION NO. DATE
                      KIND DATE
     PATENT NO.
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Searcher : Shears

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19970327
                                           WO 97-US4904
                            19971009
            AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
     WO 9737043
PI
            DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP,
             KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT,
             UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR,
             GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
             GA, GN, ML, MR, NE, SN, TD, TG
                                                             19970327
                                           AU 97-24238
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                            19971022
     AU 9724238
                                                             19970822
                                           WO 97-US14892
                            19980226
             AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
     WO 9807887
             DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP,
         W:
             KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
             TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,
         RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
              FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
              CM, GA, GN, ML, MR, NE, SN, TD, TG
                                                             19970822
                                            AU 97-41604
                             19980306
                        A1
      AU 9741604
      1997
 PΥ
      1997
      1998
      The present invention is directed to methods of detecting the
 AB
      presence of a bipolar mood disorder
      susceptibility locus in an individual, comprising analyzing a sample
      of DNA for the presence of a DNA polymorphism on the long
      arm of chromosome 18 between markers D18S469 and
      D18S554, wherein the DNA polymorphism is assocd. with a
      form of bipolar mood disorder (BP).
      The invention for the first time provides strong evidence of a
       susceptibility gene for BP that is located in the 18q22-q23 region
       of the long arm of chromosome 18.
                                          The
       disclosure describes the use of linkage anal. and genetic markers in
       the 18q22-q23 region to fine map the region and the use of genetic
       markers to genetically diagnose (genotype) BP in individuals, to
       confirm phenotypic diagnoses of BP, to det. appropriate treatments
       for patients with particular genotypic subtypes. Isolated
       polynucleotides useful for genetic linkage anal. of BP-I and methods
       for obtaining such isolated polynucleotides are also described.
       screening for a BP susceptibility locus, only those individuals with
       the most severe and clin. distinctive form of BP were considered as
       affected. Two large pedigrees were selected from a genetically
       homogeneous population, that of the Central Valley of Costa Rica.
       The entire human genome was screened for linkage using mapped
       microsatellite markers and a model for genetic anal. in which most
        of the linkage information derived from affected individuals.
                                 Searcher : Shears
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lines of evidence supported the localization of a BP susceptibility locus to 18q22-q23: assocn. anal., linkage anal., and direct observation of a conserved marker haplotype.

- ANSWER 10 OF 14 CAPLUS COPYRIGHT 1999 ACS T.4
- 1997:675831 CAPLUS AN
- A novel, heritable, expanding CTG repeat in an intron of the SEF2-1 DNTI gene on chromosome 18q21.1
- Hum. Mol. Genet. (1997), 6(11), 1855-1863 SO CODEN: HMGEE5; ISSN: 0964-6906
- Breschel, T. S.; McInnis, M. G.; Margolis, R. L.; Sirugo, G.; Corneliussen, B.; Simpson, S. G.; McMahon, F. J.; MacKinnon, D. F.; ΑU Xu, J. F.; Pleasant, N.; Huo, Y.; Ashworth, R. G.; Grundstrom, C.; Grundstrom, T.; Kidd, K. K.; DePaulo, J. R.; Ross, C. A.
- There are currently 13 diseases known to be caused by unstable PΥ AΒ triplet repeat mutations; however, there are some instances (as with FRAXF and FRA16) when these mutations appear to be asymptomatic. In a search for polymorphic CTG repeats as candidate genes for bipolar disorder, we screened a genomic human chromosome 18-specific library and identified a 1.6 kb clone (7,6A) with a CTG24 repeat that maps to 18q21.1. The CTG repeat locus, termed CTG18.1, is located within an intron of human SEF2-1, a gene encoding a basic helix-loop-helix DNA binding protein involved in transcriptional regulation. The CTGn repeat is highly polymorphic and very enlarged alleles, consistent with expansions of up to CTG2100, were identified. PCR and Southern blot anal. in pedigrees ascertained for a Johns Hopkins University bipolar disorder linkage study and in CEPH ref. pedigrees revealed a tripartite distribution of CTG18.1 alleles with stable alleles (CTG10-CTG37), moderately enlarged and unstable alleles (CTG53-CTG250), and very enlarged, unstable alleles (CTG800-CTG2100). Moderately enlarged alleles were not assocd. with an abnormal phenotype and have a combined enlarged allele frequency of 3% in the CEPH and bipolar populations. Very enlarged alleles, detectable only by Southern blot anal. of genomic digests, have thus far been found in only three individuals from our bipolar pedigrees, and to date, have not been found in any of the CEPH ref. pedigrees. These enlarged alleles may arise, at least in part, via somatic mutation.
 - ANSWER 11 OF 14 CAPLUS COPYRIGHT 1999 ACS L4
 - 1997:673386 CAPLUS ΔN
 - DN
 - Genomic structure and chromosomal localization of a human TImyo-inositol monophosphatase gene (IMPA)
 - Genomics (1997), 45(1), 113-122 SO

308-4994 Searcher : Shears

CODEN: GNMCEP; ISSN: 0888-7543

Sjoholt, Gry; Molven, Anders; Lovlie, Roger; Wilcox, Andrea; Sikela, AU James M.; Steen, Vidar M.

PΥ

- Manic-depressive illness is a serious psychiatric disorder that in many, but far from all, patients can be treated with lithium. The AB main causes for discontinuation of lithium therapy are unpleasant or serious side effects and lack of response. The reason for the striking variation in clin. efficacy of lithium treatment among bipolar patients is not known. The enzyme myo-inositol monophosphatase (IMPase) has been postulated as a target for the mood-stabilizing effects of lithium, but variation in the coding region of the human IMPA gene encoding IMPase activity has not been obsd. in manic-depressive patients (Steen et al., Pharmacogenetics, 1996, 6, 113-116). It is nevertheless conceivable that polymorphisms or mutations in the noncoding regions of this gene could influence the lithium response in psychiatric patients. As a first step in investigating this possibility, we here report the genomic structure of the human IMPA gene. The gene is composed of at least nine exons and covers more than 20 kb of sequence on chromosome 8q21.13-q21.3. 3'-untranslated part of the gene, we obsd. a polymorphism (a G to A transition) and also two short sequences similar to the inositol/cholin-responsive element consensus. Finally, we postulate that two addnl. IMPA-like transcripts originate from the human genome, one from a position close to IMPA itself on chromosome 8 and the other from chromosome 18p. Our data may contribute to the identification of genetic factors involved in the pathogenesis and detn. of treatment response in manic-depressive illness.
 - ANSWER 12 OF 14 CAPLUS COPYRIGHT 1999 ACS T.4
 - 1996:305712 CAPLUS AN
 - 125:2629 DN
 - Analysis of chromosome 18 DNA markers in TI multiplex pedigrees with manic depression
 - Biol. Psychiatry (1996), 39(8), 689-696 so CODEN: BIPCBF; ISSN: 0006-3223
 - Coon, Hilary; Hoff, M.; Holik, J.; Hadley, D.; Fang, N.; Reimherr, ΑU F.; Wender, P.; Byerley, William
 - PΥ
 - Six pedigrees segregating manic-depressive illness (MDI) were AB analyzed for linkage to 21 highly polymorphic microsatellite DNA markers on chromosome 18. These markers span almost the entire length of the chromosome, and gaps between markers are less than 20 cM. In particular, we analyzed several markers localizing to the pericentromeric region of chromosome 18 which generated lod scores suggestive of linkage in an independent study. Lod score anal. was performed and results were examd. by family. One region produced Searcher : Shears 308-4994

pos. lod scores, though at 18q23 and not in the pericentromeric region. We addnl. used two nonparametric methods because the true mode of transmission of MDI is unknown; results were again somewhat suggestive for markers in the region of 18q23 but not in the pericentromeric region.

- ANSWER 13 OF 14 CAPLUS COPYRIGHT 1999 ACS L4
- 1996:305711 CAPLUS NA
- 124:334471 DN
- Linkage analysis of families with bipolar illness and chromosome 18 markers
- Biol. Psychiatry (1996), 39(8), 679-688 SO CODEN: BIPCBF; ISSN: 0006-3223
- De bruyn, An; Souery, Daniel; Mendelbaum, Karine; Mendlewicz, ΑU Julien; Van Broeckhoven, Christine
- 1996
- PY Linkage of bipolar (BP) illness with AΒ chromosome 18 markers located at 18p11 was recently reported. A possible role for chromosome 18 in the etiol. of BP illness was implicated previously by the finding in three unrelated patients of a ring chromosome with breakpoints and deleted segments at 18pter-p11 and 18q23-qter. test the potential importance of a gene defect on chromosome 18 in our material, we examd. linkage with chromosome 18 markers in two families with multiple patients with BP illness or BP spectrum disorders. Fourteen simple tandem repeat polymorphisms were used located in the chromosomal region 18p11 to 18q23 and sepd. by distances of approx. 10 cM on the genetic map. In one family linkage to chromosome 18 could not be excluded. Linkage and segregation anal. in the family suggests that the 12-cM region between D18S51 and D18S61 located at 18q21.33-q23 may contain a candidate gene for BP illness.
- ANSWER 14 OF 14 CAPLUS COPYRIGHT 1999 ACS T.4
- 1996:41004 CAPLUS NΑ
- 124:108441 DN
- Evidence for linkage of bipolar disorder to chromosome 18 with a parent-of-origin effect
- Am. J. Hum. Genet. (1995), 57(6), 1384-94 SO
 - CODEN: AJHGAG; ISSN: 0002-9297
- Stine, O. Colin; Xu, Jianfeng; Koskela, Rebecca; McMahon, Francis J.; Gschwend, Michele; Friddle, Carl; Clark, Chris D.; Mclnnis, ΑU Melvin G.; Simpson, Sylvia G.; et al.
- PΥ 1995
- A susceptibility gene on chromosome 18 and a AB parent-of-origin effect have been suggested for bipolar affective disorder (BPAD). We have studied 28 nuclear families selected for apparent unilinear transmission of the 308-4994 Searcher : Shears

BPAD phenotype, by using 31 polymorphic markers spanning chromosome 18. Evidence for linkage was tested with affected-sib-pair and LOD score methods under two definitions of the affected phenotype. The affected-sib-pair analyses indicated excess allele sharing for makers on 18p within the region reported previously. The greatest sharing was at D18S37: 64% in bipolar and recurrent unipolar (RUP) sib pairs (P = .0006). In addn., excess sharing of the paternally, but not maternally, transmitted alleles was obsd. at three markers on 18q: at D18S41, 51 bipolar and RUP sib pairs were concordant for paternally transmitted alleles, and 21 pairs were discordant (P = .0004). The evidence for linkage to loci on both 18p and 18q was strongest in the 11 paternal pedigrees, i.e., those in which the father or one of the father's sibs is affected. In these pedigrees, the greatest allele sharing (81%; P = .00002) and the highest LOD score (3.51; .THETA. = 0.0) were obsd. at D18S41. Our results provide further support for linkage of BPAD to chromosome 18 and the first mol. evidence for a parent-of-origin effect operating in this disorder. loci involved, and their precise location, require further study.

Searcher: Shears 308-4994

(FILE 'CAPLUS' ENTERED AT 14:00:35 ON 05 MAR 1999)

L5 3 S BPI(S) (BIPOLAR? OR BI POLAR?)

L6 3 S L5 NOT L4

L7 2 S L6 AND CHROMOSOM? (1A) 18

L8 0 S L7 AND (MUTAT? OR MUTAGEN? OR MUTANT OR POLYMORPH?)

=> d 17 1-2 .beverly

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 1999 ACS

AN 1996:312108 CAPLUS

DN 125:2666

TI Genetic mapping using haplotype, association and linkage methods suggests a locus for severe **bipolar** disorder (BPI) at 18q22-q23

SO Nat. Genet. (1996), 12(4), 436-441 CODEN: NGENEC; ISSN: 1061-4036

AU Freimer, Nelson B.; Reus, Victor I.; Escamilla, Michael A.; McInnes, L. Alison; Spesny, Mitzi; Leon, Pedro; Service, Susan K.; Smith, Lauren B.; Silva, Sandra; et al.

PY 1996

Manic-depressive illness, or bipolar disorder (BP), is characterized AB by episodes of elevated mood (mania) and depression1. We designed a multistage study in the genetically isolated population of the Central Valley of Costa Rica2,3 to identify genes that promote susceptibility to severe BP (termed BPI), and screened the genome of two Costa Rican BPI pedigrees (McInnes et al., submitted). We considered only individuals who fulfilled very stringent diagnostic criteria for BPI to be affected. The strongest evidence for a BPI locus was obsd. in 18q22-q23. We tested 16 addnl. markers in this region and seven yielded peak lod scores over 1.0. These suggestive lod scores were obtained over a far greater chromosomal length (about 40 cM) than in any other genome region. This localization is supported by marker haplotypes shared by 23 of 26 BPI affected individuals studied. Addnl., marker allele frequencies over portions of this region are significantly different in the patient sample from those of the general Costa Rican population. Finally, we performed an anal. which made use of both the evidence for linkage and for assocn. in 18q23, and we obsd. significant lod scores for two markers in this region.

- L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 1999 ACS
- AN 1996:312107 CAPLUS
- DN 125:2665
- TI A genome-wide search for chromosomal loci linked to bipolar affective disorder in the Old Order Amish
- SO Nat. Genet. (1996), 12(4), 431-435 CODEN: NGENEC; ISSN: 1061-4036
- AU Ginns, Edward I.; Ott, Jurg; Egeland, Janice A.; Allen, Cleona R.; Fann, Cathy S. J.; Pauls, David L.; Weissenbach, Jean; Carulli, John Searcher: Shears 308-4994

P.; Falls, Kathleen M.; et al.

PY 1996

AB

The most characteristic features of bipolar affective disorder (manic-depressive illness) are episodes of mania (bipolar I, BPI) or hypomania (bipolar II, BPII) interspersed with periods of depression. Manic-depressive illness afflicts about one percent of the population, and if untreated, is assocd. with an approx. 20% risk of suicide. Twin, family and adoption studies provide compelling evidence for a partial genetic etiol., but the mode(s) of inheritance has not been identified. Nonetheless, the majority of genetic linkage studies have assumed classical mendelian inheritance attributable to a single major gene. Although segregation analyses have yielded inconsistent results (with most studies rejecting a single locus inheritance model), the best single gene model is dominant inheritance if only BPI is considered. Reported linkages of bipolar affective disorder on chromosomes 11, 18, 21 and X have been difficult to substantiate, and addnl. studies are required for replication or exclusion of these regions. We now present the results of our genome-wide linkage analyses that provide evidence that regions on chromosomes 6, 13 and 15 harbor susceptibility loci for bipolar affective disorder, suggesting that bipolar affective disorder in the Old Order Amish is inherited as a complex trait.

=> d his 19- ful; d 1-24 bib abs

(FILE 'MEDLINE, BIOSIS, EMBASE, LIFESCI, BIOTECHDS, WPIDS, CONFSCI, SCISEARCH, JICST-EPLUS, PROMT' ENTERED AT 14:08:47 ON 05 MAR 1999)
289 SEA ABB=ON PLU=ON (L1 OR L2 OR L5) AND CHROMOSOM?(1A)

L9 289 SE 18

L10

58 SEA ABB=ON PLU=ON L9 AND (MUTAT? OR MUTAGEN? OR MUTANT OR POLYMORPH?)

L11 24 DUP REM L10 (34 DUPLICATES REMOVED)

L11 ANSWER 1 OF 24 BIOTECHDS COPYRIGHT 1999 DERWENT INFORMATION LTD

AN 99-02055 BIOTECHDS

TI New isolated human fsh16 gene;

protein and antibody used for neuropsychiatric condition diagnosis, therapy and drug screening, and to identify fsh16 gene polymorphism

AU Chen H; Freimer N B

PA Millennium-Pharm.; Univ.California

LO Cambridge, MA, USA; Oakland, CA, USA.

PI WO 9842726 1 Oct 1998

AI WO 98-US6210 27 Mar 1998

PRAI US 97-828009 27 Mar 1997

DT Patent

LA English

Searcher: Shears 308-4994

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WPI: 99-045133 [04]
OS
      99-02055 BIOTECHDS
AN
     A nucleic acid (NA, I) with a given 1,086 bp sequence
      that encodes a given 110 amino acid fsh16 protein sequence, or a NA
AB
      encoding a protein with a protein sequence encoded by the NA
      deposited under ATCC 98349, is claimed. Also claimed is a NA that
      hybridizes to the complement of (I), and encodes a protein involved
      in neuropsychiatric disorders, as well as a NA that
      hybridizes to the complement of (I) under stringent conditions.
      The claims also cover a vector containing (I), a host cell
      transformed by that vector, a protein produced by the vector, and
      an antibody that specifically binds to the protein. These can be
      used to treat neuropsychiatric disorders, by modulating
      the activity or expression of the fsh16 gene or gene product.
      can also be used to map the human chromosome 18q region between
      markers DS18S1121 and DS18SS30, to detect polymorphisms
      in that region. This is of use in the diagnosis and treatment of
      neuropsychiatric disorders such as schizophrenia,
      attention deficit disorder, bipolar
    affective disorder, etc. They can also be used
      in drug screening to identify compounds useful in neurodegenerative
                (90pp)
    disorders.
                                                         DUPLICATE 1
L11 ANSWER 2 OF 24 MEDLINE
                     MEDLINE
     1998198351
AΝ
DN
     98198351
     No evidence for significant linkage between bipolar
 ΤI
      affective disorder and chromosome
     18 pericentromeric markers in a large series of multiplex
      extended pedigrees.
     Knowles J A; Rao P A; Cox-Matise T; Loth J E; de Jesus G M; Levine
 ΑU
      L; Das K; Penchaszadeh G K; Alexander J R; Lerer B; Endicott J; Ott
      J; Gilliam T C; Baron M
      Columbia University College of Physicians and Surgeons and New York
 CS
      State Phychiatric Institute, New York, NY 10032, USA.
      MH42535 (NIMH)
 NC
      MH43979 (NIMH)
      MH44292 (NIMH)
      AMERICAN JOURNAL OF HUMAN GENETICS, (1998 Apr) 62 (4) 916-24.
 SO
      Journal code: 3IM. ISSN: 0002-9297.
      United States
 CY
      Journal; Article; (JOURNAL ARTICLE)
 DT
      English
 LA
      Priority Journals
 FS
      199808
 ΕM
 EW
      19980802
      Bipolar affective disorder (BP
 AB
      ) is a major neuropsychiatric disorder with high
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Searcher: Shears 308-4994

heritability and complex inheritance. Previously reported linkage between BP and DNA markers in the pericentromeric region of chromosome 18, with a parent-of-origin effect (linkage was present in pedigrees with paternal transmission and absent in pedigrees with exclusive maternal inheritance), has been a focus of interest in human genetics. We reexamined the evidence in one of the largest samples reported to date (1,013 genotyped individuals in 53 unilineal multiplex pedigrees), using 10 highly polymorphic markers and a range of parametric and nonparametric analyses. There was no evidence for significant linkage between BP and chromosome 18 pericentromeric markers in the sample as a whole, nor was there evidence for significant parent-of-origin effect (pedigrees with paternal transmission were not differentially linked to the implicated chromosomal region). Two-point LOD scores and single-locus sib-pair results gave some support for suggestive linkage, but this was not substantiated by multilocus analysis, and the results were further tempered by multiple test effects. We conclude that there is no compelling evidence for linkage between BP and chromosome 18 pericentromeric markers in this sample.

- ANSWER 3 OF 24 SCISEARCH COPYRIGHT 1999 ISI (R) L11
- 1999:5859 SCISEARCH AN
- The Genuine Article (R) Number: 147RM GA
- Human G(olf) gene polymorphisms and vulnerability to TI bipolar disorder
- Berrettini W H (Reprint); Vuoristo J; Ferraro T N; Buono R J; AU Wildenauer D; AlaKokko L
- UNIV PENN, DEPT PSYCHIAT, PHILADELPHIA, PA 19104; UNIV PENN, DEPT CS GENET, PHILADELPHIA, PA 19104; UNIV OULU, DEPT MED BIOCHEM, COLLAGEN RES UNIT, OULU, FINLAND; UNIV BONN, DEPT PSYCHIAT, D-5300 BONN, GERMANY
- CYA USA; FINLAND; GERMANY
- PSYCHIATRIC GENETICS, (WIN 1998) Vol. 8, No. 4, pp. 235-238. SO Publisher: RAPID SCIENCE PUBLISHERS, 2-6 BOUNDARY ROW, LONDON SE1 8NH, ENGLAND. ISSN: 0955-8829.
- Article; Journal DT
- English LA
- Reference Count: 26 REC *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
- Two intronic polymorphisms of the human alpha subunit AΒ of the olfactory G-protein (G(olf)) are described. They were detected with single-stranded conformational polymorphism (SSCP) methods and confirmed by sequencing both strands. These single base pair (bp) substitutions occur in introns 3 tan A/G at 35 bp 3' from the exon 3/intron 3 5' splice site) and 10 tan T/G at 7 bp 5' from the 3' splice site). Both polymorphisms are Searcher : Shears 308-4994

relatively common, with minor allele frequencies of 31% (intron 3) and 16% (intron 10). The intron 3 variant shows no linkage disequilibrium with an intron 5 (CA)n microsatellite located approximately 50 kb 3' from the intron 3 variant, among a small group of German individuals with schizophrenia. The intron 3 variant is interesting because it may create an 'in-frame' cryptic splice site which, if activated, would add 12 residues to exon 3. The intron 10 variant is interesting because a purine is substituted for a pyrimidine in the 'polypyrimidine' tract of the 3' splice site, a single base substitution of the type which has been associated with aberrant splicing in the androgen receptor gene. Psychiatr Genet 8:235-238 (C) 1998 Lippincott Williams & Wilkins.

ANSWER 4 OF 24 MEDLINE L11

DUPLICATE 2

MEDLINE 1998170231 ΑN

DN

- Closing in on genes for manic-depressive illness and schizophrenia. TI
- Gershon E S; Badner J A; Goldin L R; Sanders A R; Cravchik A; ΑU
- Detera-Wadleigh S D Neurogenetics Branch, National Institute of Mental Health, National CS Institutes of Health, Bethesda, MD 20892-1274, USA.
- NEUROPSYCHOPHARMACOLOGY, (1998 Apr) 18 (4) 233-42. Ref: 62 SO Journal code: ADQ. ISSN: 0893-133X.
- United States CY
- Journal; Article; (JOURNAL ARTICLE) DTGeneral Review; (REVIEW) (REVIEW, TUTORIAL)
- English LΑ
- Priority Journals FS
- 199807 EM
- 19980701 Advances in the human genetic map, and in genetic analysis of ΕW linkage and association in complex inheritance traits, have led to AB genetic progress in the major psychoses. For chromosome 6 in schizophrenia, and chromosomes 18 and 21 in manic-depressive illness, there are reports of linkage in several independent data sets. These are small effect genes, best detected with affected-relative-pair linkage methods. Association with candidate genes is an alternative strategy to uncovering susceptibility genes for these illnesses, but convincing associations remain to be demonstrated. New clinical and laboratory investigation methods are being developed. Testing every gene in the human genome for association with illness has recently been proposed (Risch and Merikangas 1996). This would require further progress in characterizing the genome and in automated large-scale genotyping. The best type of pedigree sampling for common disease studies, whether for linkage or association, is not yet established. An endophenotype hybrid strategy can combine genetic linkage, association, and pathophysiologic studies. As clinical molecular 308-4994 Searcher : Shears

investigation methods advance, identification of disease susceptibility mutations and delineation of their pathophysiological roles may be expected.

- L11 ANSWER 5 OF 24 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 1998:946197 SCISEARCH
- GA The Genuine Article (R) Number: 146HC
- TI Failure to demonstrate parent-of-origin effect in transmission of bipolar II disorder
- AU Kato T (Reprint); Winokur G; Coryell W; Rice J; Endicott J; Keller M B; Akiskal H S
- CS UNIV TOKYO, FAC MED, DEPT PSYCHIAT, BUNKYO KU, HONGO 7-3-1, TOKYO 113, JAPAN (Reprint); UNIV IOWA, COLL MED, DEPT PSYCHIAT, IOWA CITY, IA 52242; SHIGA UNIV MED SCI, DEPT PSYCHIAT, OTSU, SHIGA 52021, JAPAN; WASHINGTON UNIV, DEPT PSYCHIAT, ST LOUIS, MO 63110; NEW YORK STATE PSYCHIAT INST & HOSP, NEW YORK, NY 10032; BROWN UNIV, BUTLER HOSP, PROVIDENCE, RI 02906; UNIV CALIF SAN DIEGO, SAN DIEGO, CA 91261
- CYA JAPAN; USA
- SO JOURNAL OF AFFECTIVE DISORDERS, (SEP 1998) Vol. 50, No. 2-3, pp. 135-141.

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS.

ISSN: 0165-0327.

- DT Article; Journal
- FS LIFE; SOCSEARCH
- LA English
- REC Reference Count: 38
 - *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
- AB Background: Parent-of-origin effect (POE) is suggested in transmission of bipolar disorder.

Bipolar II disorder (BPII) should be considered separately. Methods: The gender difference of transmitting parents, prevalence rate in children, and age at onset of patients in relation to the sex of the transmitting parent, were examined in 220 BPII patients. Results: No evidence suggesting involvement of POE was found. Conclusion: POE is not involved in transmission of BPII. Limitation: Number of subjects is not sufficient. Rate of interviewed subjects differs between mothers and fathers. Clinical relevance: Female BPII patients do not transmit the disease more often than male patients. (C) 1998 Elsevier Science B.V. All rights reserved.

- L11 ANSWER 6 OF 24 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 1998:240447 SCISEARCH
- GA The Genuine Article (R) Number: ZC526
- TI A functional variant of the serotonin transporter gene in families with bipolar affective disorder
- AU Ewald H (Reprint); Flint T; Degn B; Mors O; Kruse T A Searcher: Shears 308-499

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INST BASIC PSYCHIAT RES, DEPT PSYCHIAT DEMOG, SKOVAGERVEJ 2, DK-8240
CS
    RISSKOV, DENMARK (Reprint); INST BASIC PSYCHIAT RES, DEPT BIOL
     PSYCHIAT, DK-8240 RISSKOV, DENMARK; AARHUS UNIV, INST HUMAN GENET,
     DK-8000 AARHUS, DENMARK
    DENMARK
CYA
     JOURNAL OF AFFECTIVE DISORDERS, (MAR 1998) Vol. 48, No. 2-3, pp.
SO
     135-144.
     Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM,
     NETHERLANDS.
     ISSN: 0165-0327.
     Article; Journal
DT
     LIFE; SOCSEARCH
FS
     English
LΑ
     Reference Count: 52
REC
     *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
        Background: The serotonin transporter protein (SERT) reuptakes
AΒ
     serotonin from synapses and has been implied as the site of
     therapeutic action of many antidepressant drugs. SERT is one of the
     most relevant candidate genes for bipolar
     affective disorder. Recently a functionally
     important 44 basepair deletion in the regulatory region of the SERT
     gene was described. Association between this variant and
     affective disorder has been suggested. Methods:
     The present study analysed this variation and another variation in
     the SERT gene and nearby DNA markers in order to test for linkage
     between SERT and bipolar affective
     disorder in two Danish families. Results and conclusion:
     There was no evidence that variants in the SERT gene were a stronger
     dominant disease gene for the development of
     affective disorder in the families. The
     possibility of a recessive disease gene at or near SERT
     could not be excluded. Limitations: The present study cannot exclude
     if variations at or near the SERT gene were weak susceptibility
     genes or determine if they are important for other characteristics
     than presence or absence of disease. Clinical relevance:
      Further studies of the SERT gene in affective and other
      disorders, as well as in relation to treatment response to
      antidepressants are needed. (C) 1998 Elsevier Science B.V.
      ANSWER 7 OF 24 BIOTECHDS COPYRIGHT 1999 DERWENT INFORMATION LTD
 L11
       98-00993 BIOTECHDS
 AN
       Medical methods relating to bipolar mood disorder
 TI
          genotype analysis for use in diagnosis
       Friemer N B; Leon P; Reus V I; Sandkuijl L A; Barondes S H
 ΑU
       Univ.California
 PΑ
       Oakland, CA, USA.
 LO
       WO 9737043 9 Oct 1997
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Searcher : Shears

308-4994

ΡI

ΑI

WO 97-US4904 27 Mar 1997

US 96-23438 23 Aug 1996; US 96-14498 29 Mar 1996 PRAI Patent DTEnglish LΑ WPI: 97-535448 [49] os 98-00993 BIOTECHDS A new method of predicting a Spanish or Amerindian patients ANAB likelihood of developing bipolar mood disorder involves determining the patient's genotype in a region on the long arm of chromosome-18 by determining allele sizes at markers between D18S469 and D18S554, and comparing the genotype to genotypes of affected individuals. The analysis may also involve analyzing DNA of the patient's family members. Also claimed is a method of predicting a patients responsivity to drug treatment for bipolar mood disorder. Knowledge of the genotype at this locus may help in selecting appropriate treatments for the disorder. The markers are preferably located between markers D18S1121 and D18S380. polymorphism is located between D18S469 and D18S1161, D18S1161 and D18S1121, D18S1121 and D18S1009, D18S1109 and D18S380, D18S380 and D18S554, or D18S1009 and D18S554. (52pp) DUPLICATE 4 L11 ANSWER 8 OF 24 MEDLINE MEDLINE 1998027057 ANA novel, heritable, expanding CTG repeat in an intron of the SEF2-1 98027057 DNTI gene on chromosome 18q21.1. Breschel T S; McInnis M G; Margolis R L; Sirugo G; Corneliussen B; Simpson S G; McMahon F J; MacKinnon D F; Xu J F; Pleasant N; Huo Y; ΑU Ashworth R G; Grundstrom C; Grundstrom T; Kidd K K; DePaulo J R; Ross C A George Browne Genetics Laboratory, Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine, CS Baltimore, MD, USA. MH01088 (NIMH) NC MH54701 (NIMH) MH50763 (NIMH) HUMAN MOLECULAR GENETICS, (1997 Oct) 6 (11) 1855-63. SO Journal code: BRC. ISSN: 0964-6906. ENGLAND: United Kingdom CY Journal; Article; (JOURNAL ARTICLE) TTC English LAPriority Journals FS GENBANK-U75701 OS 199803 EM There are currently 13 diseases known to be caused by AΒ unstable triplet repeat mutations; however, there are some instances (as with FRAXF and FRA16) when these mutations appear to be asymptomatic. In a search for polymorphic CTG

Searcher : Shears

repeats as candidate genes for bipolar disorder, we screened a genomic human chromosome 18 -specific library and identified a 1.6 kb clone (7,6A) with a CTG24 repeat that maps to 18q21.1. The CTG repeat locus, termed CTG18.1, is located within an intron of human SEF2-1, a gene encoding a basic hellx-loop-hellx DNA binding protein involved in transcriptional regulation. The CTGn repeat is highly polymorphic and very enlarged alleles, consistent with expansions of up to CTG2100, were identified. PCR and Southern blot analysis in pedigrees ascertained for a Johns Hopkins University bipolar disorder linkage study and in CEPH reference pedigrees revealed a tripartite distribution of CTG18.1 alleles with stable alleles (CTG10-CTG37), moderately enlarged and unstable alleles (CTG53-CTG250), and very enlarged, unstable alleles (CTG800-CTG2100). Moderately enlarged alleles were not associated with an abnormal phenotype and have a combined enlarged allele frequency of 3% in the CEPH and bipolar populations. Very enlarged alleles, detectable only by Southern blot analysis of genomic digests, have thus far been found in only three individuals from our bipolar pedigrees, and to date, have not been found in any of the CEPH reference pedigrees. These enlarged alleles may arise, at least in part, via somatic mutation.

L11 ANSWER 9 OF 24 MEDLINE

DUPLICATE 5

- AN 1998153638 MEDLINE
- DN 98153638
- TI Linkage of bipolar affective disorder to chromosome 18 markers in a new pedigree series.
- AU McMahon F J; Hopkins P J; Xu J; McInnis M G; Shaw S; Cardon L; Simpson S G; MacKinnon D F; Stine O C; Sherrington R; Meyers D A; DePaulo J R
- CS Johns Hopkins University School of Medicine, Baltimore, MD, USA.. fmcm@welchlink.welch.jhu.edu
- SO AMERICAN JOURNAL OF HUMAN GENETICS, (1997 Dec) 61 (6) 1397-404. Journal code: 3IM. ISSN: 0002-9297.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
 (MULTICENTER STUDY)
- LA English
- FS Priority Journals
- EM 199805
- EW 19980503
- AB Several groups have reported evidence suggesting linkage of bipolar affective disorder (BPAD) to chromosome 18. We have reported data from 28 pedigrees that showed linkage to marker loci on 18p and to loci 40 cM distant on 18q. Most of the linkage evidence derived from families with affected phenotypes in only the paternal lineage and Searcher: Shears 308-4994

from marker alleles transmitted on the paternal chromosome. We now report results from a series of 30 new pedigrees (259 individuals) genotyped for 13 polymorphic markers spanning chromosome 18. Subjects were interviewed by a psychiatrist and were diagnosed by highly reliable methods. Genotypes were generated with automated technology and were scored blind to phenotype. Affected sib pairs showed excess allele sharing at the 18q markers D18S541 and D18S38. A parent-of-origin effect was observed, but it was not consistently paternal. No robust evidence of linkage was detected for markers elsewhere on chromosome 18. Multipoint nonparametric linkage analysis in the new sample combined with the original sample of families supports linkage on chromosome 18q, but the susceptibility gene is not well localized.

L11 ANSWER 10 OF 24 MEDLINE

DUPLICATE 6

- AN 1998060617
- MEDLINE
- DN 98060617
- TI An integrated physical map of 18p11.2: a susceptibility region for bipolar disorder.
- AU Esterling L E; Cox Matise T; Sanders A R; Yoshikawa T; Overhauser J; Gershon E S; Moskowitz M T; Detera-Wadleigh S D
- CS Laboratory of Molecular Genetics, National Institute on Deafness and Other Communication Disorders, National Institutes of Health, Bethesda, MD 20892, USA.. lesterlg@pop.nidcd.nih.gov
- NC MH44292 (NIMH) HG00151 (NHGRI)
- SO MOLECULAR PSYCHIATRY, (1997 Oct-Nov) 2 (6) 501-4.
 Journal code: CUM. ISSN: 1359-4184.
- CY ENGLAND: United Kingdom
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199803
- AΒ The reported linkage between bipolar disorder and a large pericentric portion of chromosome 18 has been replicated in an independent study. Further examination of this region showed that 18p11.2 had the greatest allele sharing in our pedigrees and increased sharing in other independently ascertained pedigree series permitting refinement of the region of significance. To facilitate positional cloning of a susceptibility gene, we used a combination of mapping reagents, including a subchromosomal somatic cell hybrid panel, a contig of clones in yeast artificial chromosomes (YAC), and a radiation hybrid (RH) panel, to construct a high resolution physical map of the region including sequence tag sites (STSs) and expressed sequence tags (ESTs). This approach generated the interlocus distance and order of 15 STSs and 16 ESTs including four novel transcripts, with an average of approximately 200 kb between loci, over a approximately

Searcher : Shears

308-4994

6-Mb region. This high resolution integrated map will be an important tool in providing loci for contig construction, and positional candidates for mutation screening.

- ANSWER 11 OF 24 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V. L11
- AN 97348147 EMBASE
- 1997348147 DN
- An integrated physical map of 18p11.2: A susceptibility region for TI bipolar disorder.
- Esterling L.E.; Matise T.C.; Sanders A.R.; Yoshikawa T.; Overhauser UΑ J.; Gershon E.S.; Moskowitz M.T.; Detera-Wadleigh S.D.
- L.E. Esterling, Clinical Neurogenetics Branch, National Institute of CS Mental Health, National Institutes of Health, 9000 Rockville Pike, Bethesda, MD 20892-1274, United States. lesterlg@pop.nidcd.nih.gov
- Molecular Psychiatry, (1997) 2/5 (501-504). SO
 - Refs: 16
 - ISSN: 1359-4184 CODEN: MOPSFQ
- United Kingdom CY
- DTJournal; Article
- Human Genetics FS 022 032 Psychiatry
- LA English
- English SL
- The reported linkage between bipolar disorder AB and a large pericentric portion of chromosome 18 has been replicated in an independent study. Further examination of this region showed that 18p11.2 had the greatest allele sharing in our pedigrees and increased sharing in other independently ascertained pedigree series permitting refinement of the region of significance. To facilitate positional cloning of a susceptibility gene, we used a combination of mapping reagents, including a subchromosomal somatic cell hybrid panel, a contig of clones in yeast artificial chromosomes (YAC), and a radiation hybrid (RH) panel, to construct a high resolution physical map of the region including sequence tag sites (STSs) and expressed sequence tags (ESTs). This approach generated the interlocus distance and order of 15 STSs and 16 ESTs including four novel transcripts, with an average of .apprx. 200 kb between loci over a .apprx. 6-Mb region. This high resolution integrated map will be an important tool in providing loci for contig construction, and positional candidates for mutation screening.
- ANSWER 12 OF 24 SCISEARCH COPYRIGHT 1999 ISI (R) L11
- AN97:425337 SCISEARCH
- The Genuine Article (R) Number: XA799 GΑ
- Bipolar disorder: From families to genes TI
- Alda M (Reprint) ATT
- ROYAL OTTAWA HOSP, OTTAWA, ON K1Z 7K4, CANADA (Reprint); UNIV CS OTTAWA, DEPT PSYCHIAT, OTTAWA, ON K1N 6N5, CANADA : Shears 308-4994

Searcher

CYA CANADA

SO CANADIAN JOURNAL OF PSYCHIATRY-REVUE CANADIENNE DE PSYCHIATRIE, (MAY 1997) Vol. 42, No. 4, pp. 378-387.
Publisher: CANADIAN PSYCHIATRIC ASSOC, SUITE 200, 237 ARGYLE AVE, OTTAWA ON K2P 1B8, CANADA.
ISSN: 0706-7437.

ISSN: 0700-7457.

DT General Review; Journal

FS CLIN; SOCSEARCH

LA English

REC Reference Count: 155

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB Background: Genetic factors are known to contribute to the etiology of bipolar illness, but the actual genetic mechanisms remain to be clarified.

Methods: This paper reviews the research undertaken to establish the generic basis of bipolar illness and to elucidate the nature of its genetic predisposition.

Results: The presented findings suggest that bipolar affective disorder is a heterogeneous condition characterized by a complex relationship between the genetic susceptibility and the clinical presentation. Linkage studies have generated promising and replicated findings on chromosomes

Conclusion: In spite of the methodological difficulties inherent in the generic study of psychiatric disorders, recent investigations have made important advances and promise to identify specific susceptibility genes.

- L11 ANSWER 13 OF 24 BIOSIS COPYRIGHT 1999 BIOSIS
- AN 1998:111582 BIOSIS
- DN PREV199800111582
- Bipolar affective disorder: Genomic screen and follow-up analyses on chromosomes 4, 5, 7, 8, 12, 18, and 20.
- AU McInnis, M. G. (1); Koskella, R. J.; McMahon, F. J.; Simpson, S. G. (1); Mackinnon, D. F. (1); Xu, J. (1); Meyers, D. A. (1); Friddle, C.; Breschel, T. S. (1); Botstein, D.; Depaulo, J. R. (1)
- CS (1) Johns Hopkins Univ. Sch. Med., Baltimore, MD USA
- American Journal of Human Genetics, (Oct., 1997) Vol. 61, No. 4
 SUPPL., pp. A285.
 Meeting Info.: 47th Annual Meeting of the American Society of Human
 Genetics Baltimore, Maryland, USA October 28-November 1, 1997
 ISSN: 0002-9297.
- DT Conference
- LA English
- L11 ANSWER 14 OF 24 MEDLINE

MEDLINE

DN 98019047

1998019047

ΑN

DUPLICATE 7

Searcher: Shears 308-4994

- TI Linkage analysis of manic depression (bipolar affective disorder) in Icelandic and British kindreds using markers on the short arm of chromosome 18.
- AU Kalsi G; Smyth C; Brynjolfsson J; Sherrington R S; O'Neill J; Curtis D; Rifkin L; Murphy P; Petursson H; Gurling H M
- CS Molecular Psychiatry Laboratory, University College London Medical School, UK.
- SO HUMAN HEREDITY, (1997 Sep-Oct) 47 (5) 268-78. Journal code: GE9. ISSN: 0001-5652.
- CY Switzerland
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199802
- EW 19980204
- Attempts were made to follow up results of a previous linkage study AΒ which suggested that a locus-modifying susceptibility to bipolar and related unipolar affective disorder might be present in the pericentromeric region of the short arm of chromosome 18. Twenty-three multiply affected pedigrees collected from Iceland and the UK were genotyped using three highly polymorphic microsatellite markers at D18S37, D18S40 and D18S44 which span the region implicated. Lod score analyses under the assumption of heterogeneity and non-parametric linkage analyses were performed. The total lod scores obtained were strongly negative, and analysis allowing for heterogeneity did not suggest that any subgroup of the families was linked. Model-free linkage analysis using extended relative pair analysis and MFLINK also failed to detect any evidence for linkage. Our study provides no support for the presence of a locus-modifying genetic susceptibility to bipolar affective disorder in the pericentromeric region of chromosome 18q11. Further analyses in independent samples should help to reveal whether our negative results are due to locus heterogeneity or
- L11 ANSWER 15 OF 24 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 97:417124 SCISEARCH
- GA The Genuine Article (R) Number: XA066
- TI Molecular genetics of mental disorders with particular reference to affective disorders

whether the original results were false-positive.

- AU Souery D; Lipp O; Mahieu B; Mendlewicz J (Reprint)
- CS UNIV CLIN BRUSSELS, ERASME HOSP, DEPT PSYCHIAT, 808 ROUTE DE LENNIK, B-1070 BRUSSELS, BELGIUM (Reprint); UNIV CLIN BRUSSELS, ERASME HOSP, DEPT PSYCHIAT, B-1070 BRUSSELS, BELGIUM
- CYA BELGIUM
- SO EUROPEAN PSYCHIATRY, (MAY-JUN 1997) Vol. 12, Supp. [2], pp. S63-S69.
 Publisher: EDITIONS SCIENTIFIQUES MEDICALES ELSEVIER, 141 RUE JAVEL,
 Searcher: Shears 308-4994

75747 PARIS CEDEX 15, FRANCE.

ISSN: 0924-9338.

DT Article; Journal

FS CLIN

LA English

REC Reference Count: 58

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

The present article reviews the recent molecular genetic findings in affective disorders. Results of linkage and association studies are discussed in regard to the main limitations of these approaches in psychiatric disorders. On the whole, linkage and association studies contributed to the localisation of some potential vulnerability genes for Bipolar affective disorder on chromosomes 18, 5, 11, 4, 21 and X. The hypothesis of anticipation in affective disorders is also considered in light of interesting results with trinucleotide repeat mutations.

L11 ANSWER 16 OF 24 LIFESCI COPYRIGHT 1999 CSA

AN 96:103821 LIFESCI

TI Detection of linkage to affective disorders in the catalogued Amish pedigrees: A reply to Pauls et al.

AU Gershon, E.S.

CS Natl. Inst. Health, Bethesda, MD 20892-1274, USA

SO AM. J. HUM. GENET., (1996) vol. 58, no. 6, pp. 1381-1384. ISSN: 0002-9297.

DT Journal

FS G

AB

LA English

We have reported evidence for linkage of a region of chromosome 18 markers to affective illness in 22 bipolar (BP) pedigrees. The pedigree series included 21 U.S. pedigrees collected by us and part of Amish pedigree 884 (NIGMS Human Genetic Mutant Cell Repository 1995) referred to as panel 3 in the catalog and also known as "the right extension." The rest of 884 was never genotyped by us, because it did not fit the criteria for inclusion, as described elsewhere. Pauls et al. have recently studied whether this linkage can be detected in the entire catalogued Amish pedigrees (884 and 1075) (NIGMS Human Genetic Mutant Cell Repository 1995) in four of the marker loci reported by Berrettini et al. The authors conclude that the Amish data contain no significant susceptibility locus for BP illness in this region of chromosome 18. We find that the data published by Pauls et al. are not conclusive with regard to the presence or absence of any susceptibility locus under the nonparametric analyses presented, and, although the sample size is extremely small, it could also be interpreted as consistent with our findings. In Searcher : Shears 308-4994

Berrettini et al., evidence for linkage was found with affected-sib-pair (ASP) and multilocus affected-pedigree-member (APM) analyses. Affection status models were affection status model 1 (ASM1), which includes BPI and BP2 and schizoaffective (SA), and ASM2, which included ASM1 and recurrent unipolar disorder (UP); the quoted statistics that follow are from ASM2. Multilocus APM analysis showed significant sharing of marker alleles among affected persons, for five contiguous markers (D18S40, D18S45, D18S44, D18S66, and D18S56), with P values from $<1 \times 10$ super(-4) to 7×10 super(-4) under weighting functions f(p) = 1 and f(p) = 1/ square root p. Since publication, we have performed multilocus ASP analysis. The P values for the multilocus analyses ranged between .003 and .00008, depending on the set of markers analyzed. LOD Score Analyses with Specified Genetic Model. Under a dominant model, Pauls et al. found a maximum LOD score of 1.31 for D18S53 in the right extension under an affection status model that includes BP disorder and major depression, which is about the same as that found for this pedigree by Berrettini et al. (LOD score = 1.25). When the rest of the pedigrees were included, the LOD score was >-2. Pauls et al. imply that the observed LOD scores in the right extension are a "false positive," finding them reminiscent of previous reports of linkage of this pedigree on chromosome 11p15 (which did not replicate). They assert that the "right extension" of Amish pedigree is more likely to have false-positive results than the other Amish pedigrees. In a simulation study they perform, where the marker was unlinked to the disease gene, 2.6% of the replicates gave a LOD score >1.0 for the right-extension pedigree but only 0.6% of replicates of the rest of the pedigrees had LOD scores >1.0. The argument that the false-positive rate in the first pedigree is too high is flawed, because, asymptotically, one would expect a LOD score of 1.0 to occur 3.2% of the time (assuming a two-tailed chi super(2) test). Thus the finding that 2.6% of replicates have this value is consistent with theory and does not suggest that this pedigree is prone to false-positive results. Their further assertion that "presumably, these observations also hold true for non-parametric (ASP) linkage analyses" is a speculation based on their incorrect interpretation. LOD scores of greater than or equal to 1 were reported by us in the 1994 paper only as illustrative results in single pedigrees, and not as a positive linkage result in any one pedigree or in the entire series.

L11 ANSWER 17 OF 24 MEDLINE

DUPLICATE 8

AN 96301288 MEDLINE

DN 96301288

TI Analysis of chromosome 18 DNA markers in multiplex pedigrees with manic depression.

AU Coon H; Hoff M; Holik J; Hadley D; Fang N; Reimherr F; Wender P; Byerley W

Searcher: Shears 308-4994

Department of Psychiatry, University of Utah Medical School, Salt CS Lake City 84121, USA. MH-44212 (NIMH) NC

MH10168-F32 (NIMH) MO1-RR00064 (NCRR)

BIOLOGICAL PSYCHIATRY, (1996 Apr 15) 39 (8) 689-96. SO Journal code: A3S. ISSN: 0006-3223.

CY United States

Journal; Article; (JOURNAL ARTICLE) DT

LA English

FS Priority Journals

EM199612

Six pedigrees segregating manic-depressive illness (MDI) were AΒ analyzed for linkage to 21 highly polymorphic microsatellite DNA markers on chromosome 18. These markers span almost the entire length of the chromosome, and gaps between markers are less than 20 cM. In particular, we analyzed several markers localizing to the pericentromeric region of chromosome 18 which generated lod scores suggestive of linkage in an independent study. Lod score analysis was performed and results were examined by family. One region produced positive lod scores, though at 18q23 and not in the pericentromeric region. We additionally used two nonparametric methods because the true mode of transmission of MDI is unknown; results were again somewhat suggestive for markers in the region of 18q23 but not in the pericentromeric region.

L11ANSWER 18 OF 24 MEDLINE DITPLICATE 9

AN 96301287 MEDLINE

DN96301287

- Linkage analysis of families with bipolar illness and TIchromosome 18 markers.
- De bruyn A; Souery D; Mendelbaum K; Mendlewicz J; Van Broeckhoven C ΑU
- Born Bunge Foundation, Department of Biochemistry, University of CS Antwerp (UIA), Belgium.
- SO BIOLOGICAL PSYCHIATRY, (1996 Apr 15) 39 (8) 679-88. Journal code: A3S. ISSN: 0006-3223.

CY United States

 \mathbf{DT} Journal; Article; (JOURNAL ARTICLE)

LAEnglish

FS Priority Journals

EM 199612

Linkage of bipolar (BP) illness with AB chromosome 18 markers located at 18p11 was recently reported. A possible role for chromosome 18 in the etiology of BP illness was implicated previously by the finding in three unrelated patients of a ring chromosome with breakpoints and deleted segments at 18pter-p11 and Searcher : Shears

18q23-qter. To test the potential importance of a gene defect on chromosome 18 in our material, we examined linkage with chromosome 18 markers in two families with multiple patients with BP illness or BP spectrum disorders. fourteen simple tandem repeat polymorphisms were used located in the chromosomal region 18p11 to 18q23 and separated by distances of approximately 10 cM on the genetic map. In one family linkage to chromosome 18 could not be excluded. Linkage and segregation analysis in the family suggests that the 12-cM region between D18S51 and D18S61 located at 18q21.33-q23 may contain a candidate gene for BP illness.

- L11 ANSWER 19 OF 24 MEDLINE
- AN 97040879 MEDLINE
- DN 97040879
- TI Linkage disequilibrium analysis of G-olf alpha (GNAL) in bipolar affective disorder.
- AU Tsiouris S J; Breschel T S; Xu J; McInnis M G; McMahon F J
- CS Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA.
- SO AMERICAN JOURNAL OF MEDICAL GENETICS, (1996 Sep 20) 67 (5) 491-4. Journal code: 3L4. ISSN: 0148-7299.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199703
- EW 19970304
- This study examines G-olf alpha as a possible candidate gene for AB susceptibility to bipolar affective disorder (BPAD) using the Transmission Disequilibrium Test (TDT). G-olf alpha, which encodes a subunit of a G-protein involved in intracellular signaling, maps within a region of chromosome 18 that has been implicated by two different linkage studies as a potential site of BPAD susceptibility loci. The expression pattern of G-olf alpha in the brain, its coupling to dopamine receptors, and the effects of lithium salts on G-proteins all support G-olf alpha as a candidate gene for BPAD. Our study population consisted of 106 probands and sibs with bipolar I disorder, with a median age-at-onset of 21.5 years ascertained from the United States. There was no evidence of linkage disequilibrium between BPAD and any of the observed G-olf alpha alleles in our sample. Division of families based on sex of the transmitting parent did not significantly change the results. This sample had good power (78%) to detect linkage disequilibrium with alleles conferring a relative risk equal to that estimated for

the putative 18p locus (2.58). Our results do not support a major role for G-olf alpha as a susceptibility locus for BPAD in a

Searcher : Shears

308-4994

substantial portion of our sample. Other genes lying near G-olf alpha within the linked region on chromosome 18 cannot be excluded by our data. This study illustrates the use of the TDT in evaluating candidate genes within linked chromosome regions.

- L11 ANSWER 20 OF 24 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 97:28440 SCISEARCH
- GA The Genuine Article (R) Number: VZ757
- TI A novel functional **polymorphism** within the promoter of the serotonin transporter gene: Possible role in susceptibility to **affective disorders**
- AU Collier D A; Stober G; Li T; Heils A; Catalano M; DiBella D; Arranz M J; Murray R M; Vallada H P; Bengel D; Muller C R; Roberts G W; Smeraldi E; Kirov G; Sham P; Lesch K P (Reprint)
- CS UNIV WURZBURG, DEPT PSYCHIAT, FUCHSLEINSTR 15, D-97080 WURZBURG, GERMANY (Reprint); UNIV WURZBURG, DEPT PSYCHIAT, D-97080 WURZBURG, GERMANY; DEPT PSYCHOL MED, MOL GENET SECT, LONDON SE5 8AF, ENGLAND; INST PSYCHIAT, DEPT NEUROPATHOL, LONDON SE5 8AF, ENGLAND; UNIV MILAN, OSPED SAN RAFFAELE, IRCCS, DEPT NEUROPSYCHIAT SCI, I-20127 MILAN, ITALY; UNIV WURZBURG, INST HUMAN GENET, D-97074 WURZBURG, GERMANY
- CYA GERMANY; ENGLAND; ITALY
- SO MOLECULAR PSYCHIATRY, (DEC 1996) Vol. 1, No. 6, pp. 453-460.
 Publisher: STOCKTON PRESS, HOUNDMILLS, BASINGSTOKE, HAMPSHIRE,
 ENGLAND RG21 6XS.
 ISSN: 1359-4184.
- DT Article; Journal
- FS LIFE
- LA English
- REC Reference Count: 29
 - *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
- The serotonin transporter (5-HTT) is a candidate locus for AΒ aetiological involvement in affective disorders. Biochemical studies in suicides and depressed patients suggest that 5-HT uptake function is frequently reduced in affective illness, Furthermore, 5-HTT is targeted by widely used antidepressant drugs such as fluoxetine, We have performed an association study of a short variant of the 5-HTT-linked polymorphic region (5-HTTLPR), which restricts transcriptional activity of the 5-HTT promoter leading to low functional expression of the 5-HTT, in 454 patients with bipolar or unipolar affective disorder and 570 controls, derived from three European Centres (London, Milan and Wurzburg). In all three centres, the frequency of the low activity allele was higher in patients than in controls (50% vs 45% in London, 45% vs 43% in Milan, 47% vs 40% in Wurzburg). Although these differences were not individually significant, a stratified analysis of all three samples gave a significant overall odds ratio

Searcher : Shears

308-4994

of 1.23 (95% confidence interval 1.02-1.49, P = 0.03). The excess of the homozygous low-activity genotype among the patients was even greater (odds ratio 1.53, 95% confidence interval 1.04-2.23, P = 0.02), suggesting partial recessivity of the low-activity allele, Given the functional role of 5-HTT, our findings suggest that 5-HTTLPR-dependent variation in functional 5-HTT expression is a potential genetic susceptibility factor for affective disorders, If this finding is replicated, further work on genetic variants with low 5-HTT activity may facilitate the differential diagnosis of affective disorders, the assessment of suicidal behaviour, and the prediction of good clinical response to antidepressants.

L11 ANSWER 21 OF 24 MEDLINE

DUPLICATE 10

MEDLINE AN96304711

DN96304711

- Maternal inheritance and chromosome 18 allele TI sharing in unilineal bipolar illness pedigrees.
- Gershon E S; Badner J A; Detera-Wadleigh S D; Ferraro T N; ΑU Berrettini W H
- National Institute of Mental Health, Bethesda, Maryland 20892-1274, CS USA.
- 49181 NC
- AMERICAN JOURNAL OF MEDICAL GENETICS, (1996 Apr 9) 67 (2) 202-7. SO Journal code: 3L4. ISSN: 0148-7299.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- 199612 EΜ
- We have replicated the observation of McMahon et al. [1995] that AB there is excess maternal transmission of illness in a series of previously described unilineal Bipolar manic-depressive illness extended pedigrees [Berrettini et al., 1991]. ("Transmission" is defined for any ill person in a pedigree when father or mother has a personal or immediate family history of major affective disorder.) We divided our pedigrees into exclusively maternal transmission (Mat) and mixed maternal-paternal transmission (in different pedigree branches) (Pat). Using affected sib-pair-analysis, linkage to a series of markers on chromosome 18p-cen was observed in the Pat but not the Mat pedigrees, with significantly greater identity by descent (IBD) at these markers in the Pat pedigrees. As compared with the pedigree series as a whole, the proportion of alleles IBD in the linkage region is much increased in the Pat pedigrees. As shown by Kruglyak and Lander [1995], as the sharing proportion of alleles in affected relative pairs increases, the number of such pairs needed to resolve the linkage region to a 1 cM interval becomes smaller. Genetic subdivision of an illness by clinical or pedigree configuration Searcher : Shears 308-4994

criteria may thus play an important role in discovery of disease susceptibility mutations.

- L11 ANSWER 22 OF 24 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 96:559755 SCISEARCH
- GA The Genuine Article (R) Number: UY542
- TI NO ASSOCIATION BETWEEN CHROMOSOME-18 MARKERS AND LITHIUM-RESPONSIVE AFFECTIVE-DISORDERS
- AU TURECKI G; ALDA M; GROF P; GROF E; MARTIN R; CAVAZZONI P A; DUFFY A; MACIEL P; ROULEAU G A (Reprint)
- CS MONTREAL GEN HOSP, CTR RES NEUROSCI, 1650 CEDAR AVE, MONTREAL, PQ H3H 1A4, CANADA (Reprint); MONTREAL GEN HOSP, CTR RES NEUROSCI, MONTREAL, PQ H3H 1A4, CANADA; UNIV OTTAWA, ROYAL OTTAWA HOSP, AFFECT DISORDERS PROGRAM, OTTAWA, ON K1Z 7K4, CANADA
- CYA CANADA
- SO PSYCHIATRY RESEARCH, (26 JUN 1996) Vol. 63, No. 1, pp. 17-23. ISSN: 0165-1781.
- DT Article; Journal
- FS SOCSEARCH; LIFE
- LA ENGLISH
- REC Reference Count: 54
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
- An allelic association study of excellent responders to lithium AB was conducted with a candidate gene (G(olf), ln a G-protein receptor gene) and five other chromosome-18p markers. G(olf) is of special interest because it maps to a region of chromosome 18 where two independent groups (Berrettini et al., 1994; Stine et al., 1995) have found linkage to bipolar disorder. It has been proposed that G proteins are involved in the pathogenesis of bipolar disorder, and lithium, an effective prophylactic agent, is known to impair G-protein activation. To reduce heterogeneity - a common obstacle to genetic investigation - only patients who showed excellent response to lithium prophylaxis were studied. Fifty-five genetically unrelated excellent responders to lithium prophylaxis were compared with 94 normal subjects of similar ethnic background. The groups did not differ in either allele or genotype frequency for the tested markers, The data do not support the hypothesis that the tested loci confer a major susceptibility for affective disorders.

DUPLICATE 11

- L11 ANSWER 23 OF 24 MEDLINE
- AN 96065027 MEDLINE
- DN 96065027
- TI Evidence for linkage of bipolar disorder to chromosome 18 with a parent-of-origin effect.
- AU Stine O C; Xu J; Koskela R; McMahon F J; Gschwend M; Friddle C; Clark C D; McInnis M G; Simpson S G; Breschel T S; et al
- CS Department of Psychiatry, Johns Hopkins University School of Searcher: Shears 308-4994

Medicine, Baltimore, MD, USA.

- AMERICAN JOURNAL OF HUMAN GENETICS, (1995 Dec) 57 (6) 1384-94. SO Journal code: 3IM. ISSN: 0002-9297.
- United States CY
- Journal; Article; (JOURNAL ARTICLE) DT
- English LA
- Priority Journals FS
- EM
- 199604 A susceptibility gene on chromosome 18 and a AΒ parent-of-origin effect have been suggested for bipolar affective disorder (BPAD). We have studied 28 nuclear families selected for apparent unilineal transmission of the BPAD phenotype, by using 31 polymorphic markers spanning chromosome 18. Evidence for linkage was tested with affected-sib-pair and LOD score methods under two definitions of the affected phenotype. The affected-sibpair analyses indicated excess allele sharing for markers on 18p within the region reported previously. The greatest sharing was at D18S37: 64% in bipolar and recurrent unipolar (RUP) sib pairs (P = .0006). In addition, excess sharing of the paternally, but not maternally, transmitted alleles was observed at three markers on 18q: at D18541, 51 bipolar and RUP sib pairs were concordant for paternally transmitted alleles, and 21 pairs were discordant (P =0004). The evidence for linkage to loci on both 18p and 18q was strongest in the 11 paternal pedigrees, i.e., those in which the father or one of the father's sibs is affected. In these pedigrees, the greatest allele sharing (81%; P = .00002) and the highest LOD score (3.51; phi = 0.0) were observed at D18S41. Our results provide further support for linkage of BPAD to chromosome 18 and the first molecular evidence for a parent-of-origin effect operating in this disorder. The number of loci involved, and their precise location, require further study..

L11 ANSWER 24 OF 24 MEDLINE

DUPLICATE 12

- 96019068 MEDLINE MΑ
- DN96019068
- Adrenocorticotropin receptor/melanocortin receptor-2 maps within a TIreported susceptibility region for bipolar illness on chromosome 18.
- Detera-Wadleigh S D; Yoon S W; Berrettini W H; Goldin L R; Turner G; UΑ Yoshikawa T; Rollins D Y; Muniec D; Nurnberger J I Jr; Gershon E S
- Clinical Neurogenetics Branch, National Institute of Mental Health, CS National Institutes of Health, Bethesda, Maryland 20892, USA..
- 1P41 RR03655 (NCRR) NC
- AMERICAN JOURNAL OF MEDICAL GENETICS, (1995 Aug 14) 60 (4) 317-21. SO Journal code: 3L4. ISSN: 0148-7299.
- United States CY
- Journal; Article; (JOURNAL ARTICLE) DT
- LΑ English

Searcher : Shears 308-4994

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FS
     Priority Journals
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EM 199602

We have examined the possible linkage of adrenocorticotropin AΒ receptor/melanocortin receptor-2 (ACTHR/MC-2) to a reported putative susceptibility locus for bipolar illness (BP) in 20 affected pedigrees. Initially, allelic variants of the gene were identified by polymerase chain reaction-single stranded conformation polymorphism (PCR-SSCP) and the gene was genetically mapped using both the Centre d'Etudes du Polymorphisme Humain (CEPH) pedigrees and the BP pedigrees used in this study. We found that the ACTHR/MC-2 gene maps between D18S53 and D18S66. These loci span a region of chromosome 18 which, in a previous study [Berrettini et al.: Proc Natl Acad Sci USA 91:5918-5921, 1994) revealed a putative predisposing locus to BP through nonparametric methods of linkage analysis. Linkage of ACTHR/MC-2 to BP was not demonstrable under parametric and nonparametric methods of analyses, although affected sib-pair (ASP) method revealed an increase in allele sharing among ill individuals, P = 0.023. Since this receptor is within a potential linkage region, ACTHR/MC-2 could be considered a candidate gene for BP.

=> d his l19- ful; d 1-15 .beverly

(FILE 'CAPLUS' ENTERED AT 14:16:58 ON 05 MAR 1999)

102 SEA ABB=ON PLU=ON (L1 OR L2 OR L5) AND MARKER

L19 21 SEA ABB=ON PLU=ON L19 AND (MUTAT? OR MUTAGEN? OR L20

MUTANT OR POLYMORPH? OR POLY MORPH?)

15 SEA ABB=ON PLU=ON L20 NOT (L4 OR L7) L21

ANSWER 1 OF 15 CAPLUS COPYRIGHT 1999 ACS L21

AN1998:691590 CAPLUS

DN 130:93850

Serotonin transporter gene polymorphisms in patients with TI unipolar or bipolar depression

Neurosci. Lett. (1998), 255(3), 143-146 SO CODEN: NELED5; ISSN: 0304-3940

Bellivier, Frank; Henry, Chantal; Szoke, Andrei; Schurhoff, Franck; ΑU Nosten-Bertrand, Marika; Feingold, Josue; Launay, Jean-Marie; Leboyer, Marion; Laplanche, Jean-Louis

PΥ 1998

To explore the involvement of serotonin transporter (5HTT) in mood AB disorder, the authors studied 2 polymorphisms of the 5HTT gene (a variable no. of tandem repeats in the second intron (VNTR) and a 44 bp insertion/deletion in the 5HTT linked polymorphic region (5-HTTLPR)) in a sample of unipolar and bipolar patients and controls. Homozygosity for the short variant of the 5-HTTLPR was more frequent in bipolar patients than in controls, whereas there was no difference between bipolar Searcher : Shears 308-4994

Named markers

patients and controls for allele distribution, suggesting a recessive effect. The interaction between the 2 markers suggests that the 2 polymorphisms probably have independent effects to det. the susceptibility to affective disorder. Further studies are required to identify the precise phenotype assocd. with 5HTT polymorphisms in depressed patients.

- L21 ANSWER 2 OF 15 CAPLUS COPYRIGHT 1999 ACS
- AN 1998:633914 CAPLUS
- DN 130:50771
- TI Self-esteem in remitted patients with mood disorders is not associated with the dopamine receptor D4 and the serotonin transporter genes
- SO Psychiatry Res. (1998), 80(2), 137-144 CODEN: PSRSDR; ISSN: 0165-1781
- AU Serretti, Alessandro; Macciardi, Fabio; Di Bella, Daniela; Catalano, Marco; Smeraldi, Enrico
- PY 1998
- Disturbances of the dopaminergic and serotoninergic neurotransmitter AΒ systems have been implicated in the pathogenesis of depressive symptoms. Assocns. have been reported between markers of the two neurotransmitter systems and the presence of illness or severity of depressive episodes, but no attention has been focused on the periods of remission. The present report focuses on a possible assocn. of self-esteem in remitted mood disorder patients with the functional polymorphism located in the upstream regulatory region of the serotonin transporter gene (5-HTTLPR) and the dopamine receptor D4 (DRD4). Inpatients (N = 162) affected by bipolar and unipolar disorder (DSM III-R) were assessed by the Self-Esteem Scale (SES, Rosenberg, 1965) and were typed for DRD4 and 5-HTTLPR (subjects) variants at the third exon using polymerase chain reaction (PCR) techniques. Neither DRD4 nor 5-HTTLPR variants were assocd. with SES scores, and consideration of possible stratification effects such as sex and psychiatric diagnosis did not reveal any assocn. either. The serotonin transporter and dopamine receptor D4 genes do not, therefore, influence self-esteem in remitted mood disorder subjects.
- L21 ANSWER 3 OF 15 CAPLUS COPYRIGHT 1999 ACS
- AN 1998:633913 CAPLUS
- DN 130:50770
- TI Dopamine receptor D4 gene is associated with delusional symptomatology in mood disorders
- SO Psychiatry Res. (1998), 80(2), 129-136 CODEN: PSRSDR; ISSN: 0165-1781
- AU Serretti, Alessandro; Macciardi, Fabio; Cusin, Cristina; Lattuada, Enrico; Lilli, Roberta; Smeraldi, Enrico
- PY 1998

Searcher: Shears 308-4994

- Disturbances of the dopaminergic neurotransmitter system have been AΒ implicated in the pathogenesis of depressive symptoms. Many studies have, however, failed to detect any assocn. between genetic markers for the dopamine system and mood disorders. A possible reason for this may lie in the definition of phenotype, which is traditionally based on psychiatric diagnosis. In this study, the authors investigated the possibility that functional variants of the dopamine D4 receptor (DRD4) gene might be assocd. with depressive symptomatol. in a sample of mood disorder subjects. Seventy-nine inpatients affected by bipolar and major depressive disorder (DSM-IV) were assessed at admission by the Hamilton Depression Rating Scale and were typed for DRD4 variants at the third exon using polymerase chain reaction (PCR) techniques. DRD4 was assocd. with delusional symptoms, with DRD4*7 exhibiting higher scores when compared to DRD4* variants. Polarity of mood disorder did not influence the results significantly. The findings are in accordance with the authors' previous report of an assocn. of the DRD4 gene with delusional symptomatol. of major psychoses. DRD4*7 should, therefore, be considered a liability factor for delusional symptoms in mood disorders.
- L21 ANSWER 4 OF 15 CAPLUS COPYRIGHT 1999 ACS
- AN 1998:613387 CAPLUS
- TI Variability in the serotonin transporter gene and increased risk for major depression with melancholia
- SO Hum. Genet. (1998), 103(3), 319-322 CODEN: HUGEDQ; ISSN: 0340-6717
- AU Gutierrez, Blanca; Pintor, Luis; Gasto, Cristobal; Rosa, Araceli; Bertranpetit, Jaume; Vieta, Eduard; Fananas, L.
- PY 1998
- The serotonin transporter (SERT) gene is a particularly interesting AB candidate for genetic involvement in affective disorders owing to its role in both the regulation of serotonergic neurotransmission and the mechanism of action of many antidepressant drugs. In this study, variability in the SERT gene was analyzed for the first time in a sample of patients with major depression with melancholia (MDDM) in the context of a genetic assocn. study. Two different polymorphisms of the SERT gene (17q11.1-17q12) were analyzed: a variable no. of tandem repeats (VNTR) polymorphism in intron 2, and a deletion/insertion polymorphism (5-HTTLPR) in the promoter region of the gene, the short variant of which (allele 484) reduces the transcriptional efficiency of the SERT gene. Our sample consisted of 74 unrelated subjects who strictly met DSM-IV criteria for MDDM and 84 healthy controls, all of Spanish origin. The anal. of haplotype distribution for both polymorphisms showed significant differences between cases and controls (log-likelihood ratio .chi.2=11.15, df=4, P=0.025). Moreover, when the frequencies of the 484-STin2.10 haplotype were considered in comparison with any other Searcher : Shears 308-4994

haplotype combination, a significant increase in this haplotype was found in patients with MDDM [z=2.53 (95% CI, 1.21-5.34), P=0.007]. According to these results, variability in the SERT gene has a small effect on liability to MDDM. Our findings are compatible with an additive effect of both the 484 low-activity allele and a mutation elsewhere within the transporter gene or a susceptibility locus nearby in linkage disequil. With the VNTR marker.

- L21 ANSWER 5 OF 15 CAPLUS COPYRIGHT 1999 ACS
- AN 1998:574163 CAPLUS
- DN 129:340335
- TI A susceptibility locus for bipolar affective disorder on chromosome 4q35
- SO Am. J. Hum. Genet. (1998), 62(5), 1084-1091 CODEN: AJHGAG; ISSN: 0002-9297
- AU Adams, Linda J.; Mitchell, Philip B.; Fielder, Sharon L.; Rosso, Amanda; Donald, Jennifer A.; Schofield, Peter R.
- PY 1998
- AB Bipolar affective disorder (

BAD) affects .apprx.1% of the population and shows strong heritability. To identify potential BAD susceptibility loci, the authors undertook a 15-cM genome screen, using 214 microsatellite markers on the 35 most informative individuals of a large, statistically powerful pedigree. Data were analyzed by parametric two-point linkage methods under several diagnostic models. LOD scores >1.00 were obtained for 21 markers, with four of these >2.00 for at least one model. The remaining 52 individuals in the family were genotyped with these four markers, and LOD scores remained pos. for three markers. A more intensive screen was undertaken in these regions, with the most pos. results being obtained for chromosome 4q35. Using a dominant model of inheritance with 90% max. age-specific penetrance and including bipolar I, II, schizoaffective/mania, and unipolar individuals as affected, the authors obtained a max. two-point LOD score of 2.20 (.theta. =.15) at D4S1652 and a max. three-point LOD score of 3.19 between D4S408 and D4S2924. Nonparametric analyses further supported the presence of a locus on chromosome 4q35. A max. score of 2.62 was obtained between D4S1652 and D4S171 by use of the GENEHUNTER program, and a max. score of 3.57 was obtained at D4S2924 using the affected pedigree member method. Anal. of a further 10 pedigrees suggests the presence of this locus in at least one addnl. family, indicating a possible predisposing locus and not a pedigree-specific mutation. The authors' results suggest the presence of a novel BAD susceptibility locus on chromosome 4q35.

- L21 ANSWER 6 OF 15 CAPLUS COPYRIGHT 1999 ACS
- AN 1997:299689 CAPLUS
- DN 126:273271

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Human serotonin transporter gene allele VNTR region sequences and
TI
    use in screening and diagnosis of disorders of serotonergic
     dysfunction
     PCT Int. Appl., 54 pp.
SO
     CODEN: PIXXD2
    Battersby, Sharon; Fink, George; Goodwin, Guy Manning; Harmar,
TN
    Anthony John; Ogilvie, Alan David; Smith, Christopher Albert Dale
     APPLICATION NO. DATE
     _____
     WO 96-GB2360
                     19960923
ΑI
                     19960923
     AU 96-70898
                     19960923
     GB 98-5376
                                          APPLICATION NO. DATE
                     KIND DATE
     PATENT NO.
                      ____
                           _____
                                          WO 96-GB2360
                                                            19960923
                            19970327
                      Δ1
PI
     WO 9711175
        W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ,
             LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US,
             UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,
             GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM
                                       AU 96-70898
                                                          19960923
                     A1 19970409
     AU 9670898
                                                            19960923
                            19980722
                                          GB 98-5376
                       A1
     GB 2321246
PY
     1997
     1997
     1998
     Three novel alleles of the serotonin transporter gene are disclosed
AB
     and shown to be effective markers for screening and
     diagnosis of migraine and psychiatric disorders. The sequences of
     the alleles are given. Methods for in vitro screening of
     individuals using DNA taken from blood samples are included.
     Patients with unipolar or bipolar affective
     disorder or with common or classical migraine (migraine
     without aura or migraine with aura, resp.) were tested for the
     various alleles, STin2.12, Stin2.9, or Stin2.10. PCR, SSCP, LCR and
     Southern blot methods are included.
L21 ANSWER 7 OF 15 CAPLUS COPYRIGHT 1999 ACS
     1997:128253 CAPLUS
AN
     126:207986
DN
     Two-locus admixture linkage analysis of bipolar and
TI
     unipolar affective disorder supports the
     presence of susceptibility loci on chromosomes 11p15 and 21q22
     Genomics (1997), 39(3), 271-278
SO
     CODEN: GNMCEP; ISSN: 0888-7543
     Smyth, Ciaran; Kalsi, Gursharan; Curtis, David; Brynjolfsson, Jon;
AU
     O'Neill, Jane; Rifkin, Larry; Moloney, Eamon; Murphy, Patrice;
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Searcher: Shears 308-4994

Petursson, Hannes; Gurling, Hugh

PY 1997

Following a report of a linkage study that yielded evidence for a AB susceptibility locus for bipolar affective disorder on the long arm of chromosome 21, the authors studied 23 multiply affected pedigrees collected from Iceland and the UK, using the markers PFKL, D21S171, and D21S49. Counting only bipolar cases as affected, a two-point LOD of 1.28 was obtained using D21S171 (.theta. = 0.01, .alpha. = 0.35), with three Icelandic families producing LODs of 0.63, 0.62, and 1.74 (all at .theta. = 0.0). Affected sib pair anal. demonstrated increased allele sharing at D21S171 when unipolar cases were also considered affected. The same set of pedigrees had previously been typed for a tyrosine hydroxylase gene (TH) polymorphism at 11p15 and had shown some moderate evidence for linkage. When information from TH and the 21q markers was combined in a two-locus admixt. anal., an overall admixt. LOD of 3.87 was obtained using the bipolar affection model. Thus the data are compatible with the hypothesis that a locus at or near TH influences susceptibility in some pedigrees, while a locus near D21S171 is active in others. Similar analyses in other datasets should be carried out to confirm or refute the authors' tentative finding.

L21 ANSWER 8 OF 15 CAPLUS COPYRIGHT 1999 ACS

AN 1997:38167 CAPLUS

DN 126:73334

- TI Scanning the genome with 1772 microsatellite markers in search of a bipolar disorder susceptibility gene
- SO Mol. Psychiatry (1996), 1(5), 404-407 CODEN: MOPSFQ; ISSN: 1359-4184
- AU Polymeropoulos, M. H.; Schaffer, A. A.

PY 1996

- Bipolar disorder affects approx. 1% of the population and there is evidence that genetic factors play an important role in the prodn. of symptoms. We undertook a genetic linkage study for the discovery of a major locus conferring susceptibility for bipolar illness in an Old Order Amish pedigree. Our study took advantage of publicly available phenotypic and genotypic information, the latter as a byproduct of the human genome project effort. We present a genomic scan using 1772 polymorphic genetic markers and we suggest candidate genetic regions for harboring a bipolar disorder susceptibility gene.
- L21 ANSWER 9 OF 15 CAPLUS COPYRIGHT 1999 ACS
- AN 1995:190536 CAPLUS
- DN 122:98359
- TI A linkage study of affective disorder with DNA markers for the ABO-AK1-ORM linkage group near the dopamine beta hydroxylase gene

- Biol. Psychiatry (1994), 36(7), 434-42 SO CODEN: BIPCBF; ISSN: 0006-3223
- Sherrington, Robin; Curtis, David; Brynjolfsson, Jon; Moloney, ΑU Eamonn; Rifkin, Larry; Petursson, Hannes; Gurling, Hugh
- PΥ Combining data from a no. of studies has provided evidence for a AΒ susceptibility allele for affective disorder near to the ABO-AK1-ORM region on chromosome 9q34. The dopamine beta hydroxylase gene locus is also at 9q34. Five multigenerational families with bipolar and unipolar affective disorder were analyzed for linkage with highly polymorphic microsatellite markers from the candidate region. The segregation of the illness in these families was compatible with an autosomal dominant susceptibility allele. Linkage analyses using conservative parameters seemed to provide strong evidence against a major susceptibility allele in this region including the candidate gene dopamine beta hydroxylase in these
- ANSWER 10 OF 15 CAPLUS COPYRIGHT 1999 ACS L21
- 1994:209709 CAPLUS AN
- 120:209709 DN

families.

- A genome-wide search for genes predisposing to manic-depression, TI assuming autosomal dominant inheritance
- Am. J. Hum. Genet. (1993), 52(6), 1234-49 so CODEN: AJHGAG; ISSN: 0002-9297
- Coon, Hilary; Jensen, Steve; Hoff, Mark; Holik, John; Plaetke, AU Rosemarie; Reimherr, Fred; Wender, Paul; Leppert, Mark; Byerley, William
- PY 1993
- Manic-depressive illness (MDI), also known as "bipolar ABaffective disorder," is a common and devastating neuropsychiatric illness. Although pivotal biochem. alterations underlying the disease are unknown, results of family, twin, and adoption studies consistently implicate genetic transmission in the pathogenesis of MDI. In order to carry out linkage anal., the authors ascertained eight moderately sized pedigrees contg. multiple cases of the disease. For a four-allele marker mapping 5 cM from the disease gene, the pedigree sample has >97% power to detect a dominant allele under genetic homogeneity and has >73% power under 20% heterogeneity. To date, the eight pedigrees have been genotyped with 328 polymorphic DNA loci throughout the genome. When autosomal dominant inheritance was assumed, 273 DNA markers gave lod scores <-2.0 at recombination fraction (.theta.) = .0, 174 DNA loci produced lod scores <-2.0 at .theta. = .05, and 4 DNA marker loci yielded lod scores >1 (chromosome 5-D5S39, D5S43, and D5S62; chromosome 11-D11S85). Of the markers giving lod scores >1, only D5S62 continued to show evidence for linkage when the affected-pedigree-member method Searcher : Shears 308-4994

was used. The D5S62 locus maps to distal 5q, a region contg. neurotransmitter-receptor genes for dopamine, norepinephrine, glutamate, and gamma-aminobutyric acid. Although addnl. work in this region may be warranted, the authors' linkage results should be interpreted as preliminary data, as 68 unaffected individuals are not past the age of risk.

- L21 ANSWER 11 OF 15 CAPLUS COPYRIGHT 1999 ACS
- AN 1993:618870 CAPLUS
- DN 119:218870
- TI Novel triplet repeat containing genes in human brain: Cloning, expression, and length polymorphisms
- SO Genomics (1993), 16(3), 572-9 CODEN: GNMCEP; ISSN: 0888-7543
- AU Li, Shi Hua; McInnis, Melvin G.; Margolis, Russell L.; Antonarakis, Stylianos E.; Ross, Christopher A.
- PY 1993
- Human genes contg. triplet repeats may markedly expand in length and AB cause neuropsychiatric disease, explaining the phenomenon of anticipation (increasing severity or earlier age of onset in successive generations in a pedigree). To identify novel genes with triplet repeats, the authors screened a human brain cDNA library with oligonucleotide probes contg. CTG or CCG triplet repeats. Fourteen of 40 clones encoded novel human genes, and 8 of these inserts have been sequenced on both strands. All contain repeats, and 5 of the 8 have 9 or more consecutive perfect repeats. All are expressed in brain. Chromosomal assignments reveal a distribution of these genes on multiple autosomes and the X-chromosome. Further, the repeat length in two of the genes is highly polymorphic , making them valuable index linkage markers. The authors predict that many triplet repeat-contg. genes exit; screening with the CTG probe suggests approx. 50-100 genes contg. this type of repeat are expressed in the human brain. Since addnl. disorders such as Huntington's disease,

bipolar affective disorder, and possibly

others, show features of anticipation, the authors suggest that these novel human genes with triplet repeats are candidates for causing neuropsychiatric diseases.

- L21 ANSWER 12 OF 15 CAPLUS COPYRIGHT 1999 ACS
- AN 1990:17172 CAPLUS
- DN 112:17172
- TI Assignment of the gene for complete X-linked congenital stationary night blindess (CSNB1) to Xp11.3
- SO Genomics (1989), 5(4), 727-37 CODEN: GNMCEP; ISSN: 0888-7543
- AU Musarella, M. A.; Weleber, R. G.; Murphey, W. H.; Young, R. S. L.; Anson-Cartwright, L.; Mets, M.; Kraft, S. P.; Polemeno, R.; Litt, M.; Worton, R. G.

PY 1989

- X-linked congenital stationary night blindness (CSNB) is a AΒ nonprogressive retinal disorder characterized by a presumptive defect of neurotransmission between the photoreceptor and bipolar cells. Carriers are not clin. detectable. A new classification for CSNB includes a complete type, which lacks rod function by electroretinog. and dark adaptometry, and an incomplete type, which shows some rod function on scotopic testing. The refraction in the complete CSNB patients ranges from mild to severe myopia; the incomplete ranges from moderate hyperopia to moderate myopia. To map the gene responsible for this disease, 8 multigeneration families were studied, 7 with complete (CSNB) (CSNB1) and 1 with incomplete CSNB, by linkage anal. using 17 polymorphic X-chromosome markers. Tight genetic linkage was found between CSNB1 and an Xp11.3 DNA polymorphic site, DXS7, in 7 families with CSNB1. No recombinations to CSNB1 were found with marker loci DXS7 and DXS14. The result with DXS14 may be due to the small no. of scored meioses (10). No linkage could be shown with Xq loci PGK, DXYS1, DXS52, and DXS15. Pairwise linkage anal. maps the gene for CSNB1 at Xp 11.3 and suggests that the CSNB1 locus is distal to another Xp11 marker, TIMP, and proximal to the OTC locus. Five-point anal. on the 8 families supported the order ${\tt DXS7-CSNB1-TIMP-DXS255-DXS14}$. The odds in favor of this order were 9863:1. Removal of the family with incomplete CSNB (F21) revealed 2 most favored orders, DXS7-CSNB1-TIMP-DXS255-DXS14 and CSNB1-DXS7-TIMP-DXS255-DXS14. Heterogeneity testing using the CSNB1-M27.beta. and CSNB1-TIMP linkage data (DXS7 was not informative in F21) was not significant to support evidence of genetic heterogeneity.
- L21 ANSWER 13 OF 15 CAPLUS COPYRIGHT 1999 ACS
- AN 1987:132942 CAPLUS
- DN 106:132942
- TI Bipolar affective disorders linked to DNA markers on chromosome 11
- SO Nature (London) (1987), 325(6107), 783-7 CODEN: NATUAS; ISSN: 0028-0836
- AU Egeland, Janice A.; Gerhard, Daniela S.; Pauls, David L.; Sussex, James N.; Kidd, Kenneth K.; Allen, Cleona R.; Hostetter, Abram M.; Housman, David E.
- PY 1987
- AB An anal. of the segregation of restriction fragment length polymorphisms in an Old Order Amish pedigree has made it possible to localize a dominant gene conferring a strong predisposition to manic depressive disease to the tip of the short arm of chromosome 11.
- L21 ANSWER 14 OF 15 CAPLUS COPYRIGHT 1999 ACS
 Searcher: Shears 308-4994

- AN 1987:99990 CAPLUS
- DN 106:99990
- TI Linkage of tyrosine hydroxylase to four other markers on the short arm of chromosome 11
- SO Nucleic Acids Res. (1986), 14(24), 9927-32 CODEN: NARHAD; ISSN: 0305-1048
- AU Moss, P. A. H.; Davies, K. E.; Boni, C.; Mallet, J.; Reeders, S. T.
- PY 1986
- AB Tyrosine hydroxylase is the rate-limiting enzyme in catecholamine synthesis; the gene has previously been cloned and localized to the short arm of chromosome 11. Because of the interest in tyrosine hydroxylase as a candidate gene for manic-depressive psychosis and other affective disorders, family studies were performed to det. the linkage of tyrosine hydroxylase with insulin, .beta.-globin, D11S12, and Harvey-ras 1, members of a linkage group which has previously been localized to 11p. Anal. of DNA from the Center d'Etude du Polymorphisme Humain (CEPH) and from 2 large British pedigrees showed that tyrosine hydroxylase is closely linked to these 4 loci (.cxa. = 7.36, .theta. = 0.04 for linkage to insulin) and suggest a gene order based on multipoint mapping.
- L21 ANSWER 15 OF 15 CAPLUS COPYRIGHT 1999 ACS
- AN 1982:179077 CAPLUS
- DN 96:179077
- TI Segregation and linkage studies of plasma dopamine-.beta.hydroxylase (DBH), erythrocyte catechol-O-methyltransferase (COMT), and platelet monoamine oxidase (MAO): possible linkage between the ABO locus and a gene controlling DBH activity
- SO Am. J. Hum. Genet. (1982), 34(2), 250-62 CODEN: AJHGAG; ISSN: 0002-9297
- AU Goldin, Lynn R.; Gershon, Elliot S.; Lake, C. Raymond; Murphy, Dennis L.; McGinniss, Mary; Sparkes, Robert S.
- PY 1982
- AB Measurements of DBH, COMT, and MAO along with 27 polymorphic marker phenotypes were available for 162 patients with major affective disorders and 1,125 of their relatives. Levels of enzymes were previously found not to be assocd. With illness. Pedigree anal. methods for quant. traits are used to test single-gene hypotheses for segregation of DBH in 32 families with 411 individuals, COMT in 30 families with 351 individuals, and MAO in 50 families with 309 individuals. The familial distribution of both DBH and COMT are consistent with 2 codominant alleles at the same locus that account for 56% and 59% of the total variance, resp.,. MAO activity cannot be shown to be segregating as a single major gene, but a purely nongenetic hypothesis is also rejected. A possible linkage of a locus for DBH to the ABO locus is indicated by a max. lod score of 1.82 at 0% and 10% recombination fractions for males and females, resp. A lod score of 0.61 at 0% recombination for a similar anal. in a single large pedigree was reported by R. C.

Searcher : Shears

Elston et al. (1979) making the combined lod score for the 2 studies equal to 2.32 at 0% recombination.

=> d his 122- ful

(FILE 'MEDLINE, BIOSIS, EMBASE, LIFESCI, BIOTECHDS, WPIDS, CONFSCI, SCISEARCH, JICST-EPLUS, PROMT' ENTERED AT 14:22:57 ON 05 MAR 1999)

L22 407 SEA ABB=ON PLU=ON L20

L23 0 SEA ABB=ON PLU=ON L22 AND (SAVA5 OR GA203 OR D18S1140 OR D18(W)("S1140" OR "S59") OR W3422 OR AT201 OR D18S59)

=> d his 124- ful; d 1-6 .beverly

(FILE 'CAPLUS' ENTERED AT 14:30:09 ON 05 MAR 1999)

L24 6 SEA ABB=ON PLU=ON SAVA5 OR GA203 OR D18S1140 OR D18(W) ("S1140" OR "S59") OR W3422 OR AT201 OR D18S59

L25 6 SEA ABB=ON PLU=ON L24 NOT (L4 OR L7)

L25 ANSWER 1 OF 6 CAPLUS COPYRIGHT 1999 ACS

AN 1999:95928 CAPLUS

TI Novel regions of allelic deletion on chromosome 18p in tumors of the lung, brain and breast

SO Oncogene (1998), 17(26), 3499-3505 CODEN: ONCNES; ISSN: 0950-9232

AU Tran, Yen; Benbatoul, Khalid; Gorse, Karen; Rempel, Sandra; Futreal, Andrew; Green, Mark; Newsham, Irene

PY 1998

Lung cancer is now the no. one cause of cancer death for both men AΒ and women. An age-adjusted anal. over the past 25 yr shows that in women specifically, lung cancer incidence is on the rise. It is estd. that 10-20 genetic events including the alteration of oncogenes and tumor suppressor genes will have occurred by the time a lung tumor becomes clin. evident. In an effort to identify regions contg. novel cancer genes, chromosome 18p11, a band not previously implicated in disease, was examd. for loss of heterozygosity (LOH). In this study, 50 matched normal and NSCLC tumor samples were examd. using six 18p11 and one 18q12.3 PCR-based polymorphic markers. In addn., LOH was examd. in 29 glioblastoma pairs and 14 paired breast carcinomas. This anal. has revealed potentially two regions of LOH in 18p11 in up to 38% of the tumor samples examd. The regions of LOH identified included a 2 cm area between markers D18S59 and D18S476, and a more proximal, 25 cm region of intermediate frequency between D18S452 and D18S453. These results provide evidence for the presence of one or more potential tumor suppressor genes on the short arm of chromosome 18 which may be involved in NSCLC, brain tumors and possibly breast carcinomas as well.

L25 ANSWER 2 OF 6 CAPLUS COPYRIGHT 1999 ACS
Searcher: Shears 308-4994

- AN 1998:792792 CAPLUS
- TI Evidence that a locus for familial high myopia maps to chromosome 18p
- SO Am. J. Hum. Genet. (1998), 63(1), 109-119 CODEN: AJHGAG; ISSN: 0002-9297
- AU Young, Terri L.; Ronan, Shawn M.; Drahozal, Leslie A.; Wildenberg, Scott C.; Alvear, Alison B.; Oetting, William S.; Atwood, Larry D.; Wilkin, Douglas J.; King, Richard A.
- PY 1998
- Myopia, or nearsightedness, is the most common human eye disorder. AΒ A genomewide screen was conducted to map the gene(s) assocd. with high, early-onset, autosomal dominant myopia. Eight families that each included two or more individuals with .gtoreq. -6.00 diopters (D) myopia, in two or more successive generations, were identified. Myopic individuals had no clin. evidence of connective-tissue abnormalities, and the av. age at diagnosis of myopia was 6.8 yr. The av. spherical component refractive error for the affected individuals was -9.48 D. The families contained 82 individuals; of these, DNA was available for 71 (37 affected). Markers flanking or intragenic to the genes for Stickler syndrome types 1 and 2 (chromosomes 12q13.1-q13.3 and 6p21.3, resp.), Marfan syndrome (chromosome 15q21.1), and juvenile glaucoma (chromosome 1q21-q31) were also analyzed. No evidence of linkage was found for markers for the Stickler syndrome types 1 and 2, the Marfan syndrome, or the juvenile glaucoma loci. After a genomewide search, evidence of significant linkage was found on chromosome 18p. The max. LOD score was 9.59, with marker D18S481, at a recombination fraction of .0010. Haplotype anal. further refined this myopia locus to a 7.6-cM interval between markers D18S59 and D18S1138 on 18p11.31.
- L25 ANSWER 3 OF 6 CAPLUS COPYRIGHT 1999 ACS
- AN 1991:447369 CAPLUS
- DN 115:47369
- TI Molecular cloning and expression of Mycobacterium tuberculosis
 Aoyama B peptide antigen genes in Escherichia coli. A gene encoding
 a 60kD antigen (AT201) and the immunological activity of
 recombinant peptides (15 and 60kD)
- SO Kekkaku (1990), 65(8), 507-17 CODEN: KEKKAG; ISSN: 0022-9776
- AU Tanaka-Hayashi, Tomoko; Tsuyuguchi, Takaichi; Aoyama, Kazue; Okamura, Haruki; Nagata, Kumiko; Tamura, Toshihide; Yamamoto, Yoshihiro; Furuyama, Junichi; Komatsu, Toshinori; Shin-ka, Sohei
- PY 1990
- AB To obtain recombinant peptides related to PPDs, a genomic library was constructed from the DNA of M. tuberculosis Aoyama B, a std. strain in Japan to manuf. PPDs, using the plasmid vector pUC18 series. Seven clones reacting with anti-PPD rabbit serum on immunoblotting were obtained, and the restriction map was analyzed. In this study, the nucleotide sequence of a 60 kD peptide gene was Searcher: Shears 308-4994

detd., and the comparative database anal. (GENBANK) revealed a striking level of homol. to mycobacterial heat shock protein. The expression mode of pAT201 encoding the 60 kD, as well as pAT01 encoding the 15 kD peptide, indicated that these peptides were not hybrid proteins with the lacZ gene product, but that they consisted of mycobacterial peptides only. Therefore, 15 kD and 60 kD were subjected directly to immunol. studies. The peptides were extd. from E. coli, carrying pAT01 or pAT201, purified by DEAE chromatog. and followed by Detoxi-Gel to remove LPS. The 15 kD peptide behaved similarly to PPDs both in the DTH skin reaction and the lymphocyte proliferation response on guinea pigs or rats with respect to sensitivity. However, 60 kD was unique in that it behaved like a general mitogen. The role of the 60 kD peptide was compared to the common antigen, generaly found in most species of bacteria as the heat shock protein.

- L25 ANSWER 4 OF 6 CAPLUS COPYRIGHT 1999 ACS
- AN 1987:584621 CAPLUS
- DN 107:184621
- TI Study of interaction and some properties in a sodium oxide-zinc oxide-gallium(III) oxide-water system
- SO Zh. Prikl. Khim. (Leningrad) (1987), 60(8), 1696-701 CODEN: ZPKHAB; ISSN: 0044-4618
- AU Khayak, V. G.; Yatsenko, S. P.; Diev, V. N.
- PY 1987
- AB Addn. of Ga203 to alk. zincate solns. lowers ZnO soly. significantly, esp. in the region where the liq. phase is in equil. with both Na20.3.8ZnO.6H20 and Na20.2.4ZnO.5.4H2O. The ZnO soly. decreases as Na2O concn. decreases from 20-25 to 8-10 wt.*. Favorable conditions for concg. Ga for subsequent sepn. require a Na2O content .ltoreq.10-12 wt.*. Soln. densities and viscosities increase as Na2O concn. increases, while sp. elec. cond. decreases as Na2O and Ga2O3 concns. decrease.
- L25 ANSWER 5 OF 6 CAPLUS COPYRIGHT 1999 ACS
- AN 1978:451747 CAPLUS
- DN 89:51747
- TI Precipitation in nonstoichiometric magnesium gallium oxide (Mg1-3xGa2+2x.box.xO4) spinels
- SO J. Phys. (Paris), Colloq. (1977), (7), 80-3 CODEN: JPQCAK
- AU Bassoul, P.; Lefebvre, A.; Gilles, J. C.
- PY 1977
- AB The formation of an intermediate metastable phase before the final MgGa204 + .beta.-G203 phase in nonstoichiometric MgGa204-Ga203 spinels was studied. This phase has a 1-dimensional periodic antiphase domain structure derived from the spinel structure. The structures of both ppts. (.epsilon.Mg and .beta.-Ga203) are characterized by a monoclinic distortion of their Searcher: Shears 308-4994

O framework. An invariant plane lattice strain describes the .gamma..fwdarw..epsilon.Mg transformation; this invariant plane is near the antiphase boundary plane and the habit plane which was obsd. in electronic microscopy. An invariant line lattice strain describes the .gamma.-.beta.-Ga2O3 transformation; this strain is not much different from a simple shear.

- L25 ANSWER 6 OF 6 CAPLUS COPYRIGHT 1999 ACS
- AN 1972:493891 CAPLUS
- DN 77:93891
- TI Cross sections of the ternary system sodium oxide-boric oxide-gallium(III) oxide
- SO Issled. Obl. Neorg. Fiz. Khim. (1971) 127-9 From: Ref. Zh., Khim. 1971, Abstr. No. 22B773
- AU Rza-Zade, P. F.; Ganf. K. L.; Guseinova, S. A.
- PY 1971
- AB Some cross sections of Na20.xB203-Ga203 (x = 1, 2, 3, 4) were studied by DTA and radiog., and the d. and microhardness of crystals and glasses were measured. The existence of congruently melting compds. was established: 2Na20.Ga203.-2B203;
 Na20.Ga203.B203, 2Na209Ga203.5B203. With x = 3 and 4, glasses contg. >65 mole % Ga203 were formed; their resistivity at room temp. was .apprx.1010 ohm-cm, their microhardness .apprx.456 kg/mm2, and their d.2.2-3.8 g/cm3.

=> d his 126- ful; d 1-5 bib abs

(FILE 'MEDLINE, BIOSIS, EMBASE, LIFESCI, BIOTECHDS, WPIDS, CONFSCI, SCISEARCH, JICST-EPLUS, PROMT' ENTERED AT 14:31:23 ON 05 MAR 1999)

- L26 66 SEA ABB=ON PLU=ON L24
- L27 66 SEA ABB=ON PLU=ON L26 NOT L10
- L28 7 SEA ABB=ON PLU=ON L27 AND (MUTAT? OR MUTAGEN? OR MUTANT OR POLYMORPH? OR POLY MORPH?)
- L29 5 DUP REM L28 (2 DUPLICATES REMOVED)
- L29 ANSWER 1 OF 5 BIOSIS COPYRIGHT 1999 BIOSIS DUPLICATE 1
- AN 1999:109359 BIOSIS
- DN PREV199900109359
- TI Novel regions of allelic deletion on chromosome 18p in tumors of the lung, brain and breast.
- AU Tran, Yen; Benbatoul, Khalid; Gorse, Karen; Rempel, Sandra; Futreal, Andrew; Green, Mark; Newsham, Irene (1)
- CS (1) Theodore Gildred Cancer Cent., Dep. Med., Univ. Calif.-San Diego, La Jolla, CA 92093 USA
- SO Oncogene, (Dec. 31, 1998) Vol. 17, No. 26, pp. 3499-3505. ISSN: 0950-9232.
- DT Article
- LA English
- AB Lung cancer is now the number one cause of cancer death for both men Searcher : Shears 308-4994

and women. An age-adjusted analysis over the past 25 years shows that in women specifically, lung cancer incidence is on the rise. It is estimated that 10-20 genetic events including the alteration of oncogenes and tumor suppressor genes will have occurred by the time a lung tumor becomes clinically evident. In an effort to identify regions containing novel cancer genes, chromosome 18p11, a band not previously implicated in disease, was examined for loss of heterozygosity (LOH). In this study, 50 matched normal and NSCLC tumor samples were examined using six 18p11 and one 18q12.3 PCR-based polymorphic markers. In addition, LOH was examined in 29 glioblastoma pairs and 14 paired breast carcinomas. This analysis has revealed potentially two regions of LOH in 18p11 in up to 38% of the tumor samples examined. The regions of LOH identified included a 2 cm area between markers D18559 and D18S476, and a more proximal, 25 cm region of intermediate frequency between D18S452 and D18S453. These results provide evidence for the presence of one or more potential tumor suppressor genes on the short arm of chromosome 18 which may be involved in NSCLC, brain tumors and possibly breast carcinomas as well.

L29 ANSWER 2 OF 5 SCISEARCH COPYRIGHT 1999 ISI (R)

AN 1998:413683 SCISEARCH

GA The Genuine Article (R) Number: ZP648

No evidence of replication error phenotype in primary gastric lymphoma of mucosa-associated lymphoid tissue

AU Xu W S; Chan A C L; Liang R; Srivastava G (Reprint)

CS UNIV HONG KONG, DEPT PATHOL, UNIV PATHOL BLDG, QUEEN MARY HOSP COMPOUND, POKFUL, HONG KONG, PEOPLES R CHINA (Reprint); UNIV HONG KONG, DEPT PATHOL, HONG KONG, PEOPLES R CHINA; UNIV HONG KONG, DEPT MED, HONG KONG, PEOPLES R CHINA

CYA PEOPLES R CHINA

SO INTERNATIONAL JOURNAL OF CANCER, (29 MAY 1998) Vol. 76, No. 5, pp. 635-638.

Publisher: WILEY-LISS, DIV JOHN WILEY & SONS INC, 605 THIRD AVE, NEW YORK, NY 10158-0012.

ISSN: 0020-7136.

DT Article; Journal

FS LIFE

LA English

AB

REC Reference Count: 35

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Replication error (RER) phenotype, caused by deficiency of DNA mismatch repair genes and revealed by widespread microsatellite instability, has been detected in subsets of a wide variety of solid tumors, but rarely in lymphomas in general. So far, the involvement of RER phenotype in the pathogenesis of gastric lymphoma of mucosa-associated lymphoid tissue (MALT) type has not been conclusively established. We therefore examined 9 microsatellite loci on 5 chromosomes [D2S123, D3S11, D3S1261, D3S1262, D3S1265, Searcher: Shears 308-4994

D6S262, D18S59, a CTTT(T) repeat in intron 20 of RBI gene and a CA repeat in p53 locus] in 33 cases of primary gastric MALT lymphoma for evidence of microsatellite instability by polymerase chain reaction using primers end-labeled with [gamma-P-33] ATP. Although novel-length allele was observed in 7 of 33 cases (21.2%), none of these 7 cases showed changes in more than one locus. RER phenotype was scored as positive in a case when more than I of the 9 examined microsatellite loci showed length alterations. Accordingly, none of the 33 cases had a RER phenotype. This result suggests that the pathogenesis of gastric MALT lymphoma does not involve RER phenotype. It is consistent with the general observations in lymphomas, but is highly in contrast to a previous report showing more than 50% of MALT lymphomas with the RER phenotype. (C) 1998 Wiley-Liss, Inc.

- L29 ANSWER 3 OF 5 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 1998:904432 SCISEARCH
- GA The Genuine Article (R) Number: 141HN
- TI Rapid assessment of replication error phenotype in gastric cancer
- AU Buonsanti G; Presciuttini S; Radice P; Pierotti M A; Bertario L; Ranzani G N (Reprint)
- CS UNIV PAVIA, DIPARTIMENTO GENET & MICROBIOL, VIA ABBIATEGRASSO 207, I-27100 PAVIA, ITALY (Reprint); UNIV PAVIA, DIPARTIMENTO GENET & MICROBIOL, I-27100 PAVIA, ITALY; UNIV PISA, DIPARTIMENTO SCI AMBIENTE & TERR, PISA, ITALY; IST NAZL STUDIO & CURA TUMORI, I-20133 MILAN, ITALY
- CYA ITALY
- SO DIAGNOSTIC MOLECULAR PATHOLOGY, (JUN 1998) Vol. 7, No. 3, pp. 168-173.

Publisher: LIPPINCOTT-RAVEN PUBL, 227 EAST WASHINGTON SQ, PHILADELPHIA, PA 19106.

ISSN: 1052-9551.

- DT Article; Journal
- FS LIFE; CLIN
- LA English
- REC Reference Count: 38
 - *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
- Forty gastric tumors were investigated for microsatellite instability at the D2S119 and L-myc loci. These tumors and 143 other gastrointestinal cancers were previously analyzed for instability at several different microsatellites. By evaluating previous and present results, repeated sequences were selected that frequently underwent replication errors (RERs). To coamplify these sequences, the following multiplex polymerase chain reactions (PCRs) were performed: 1) D2S119/L-myc/D18S59; 2) D2S119/L-myc/D3S1076; and 3) D2S177/L-myc/BAT-RII. Therefore, the 40 gastric tumors in the present survey were rescreened using multiplex PCRs. Each multiplex allowed detection of nearly all RER+ tumors (80% for multiplex 3 and 87% for multiplexes 1 and 2) that had been

previously identified by amplifying 9 different loci with independent reactions. Moreover, for multiplexes 1 and 2, the size differences between normal and RER alleles were sufficient to be detected by electrophoresis on conventional polyacrylamide gels after DNA staining with ethidium bromide. This approach allows a rapid and easy assessment of RER phenotype in gastric tumors.

- L29 ANSWER 4 OF 5 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 1998:552930 SCISEARCH
- GA The Genuine Article (R) Number: ZZ726
- TI Evidence that a locus for familial high myopia maps to chromosome 18p
- AU Young T L (Reprint); Ronan S M; Drahozal L A; Wildenberg S C; Alvear A B; Oetting W S; Atwood L D; Wilkin D J; King R A
- CS UNIV MINNESOTA, DEPT OPHTHALMOL, BOX 493, 420 DELAWARE ST,
 MINNEAPOLIS, MN 55455 (Reprint); UNIV MINNESOTA, DEPT MED,
 MINNEAPOLIS, MN 55455; UNIV MINNESOTA, INST HUMAN GENET,
 MINNEAPOLIS, MN 55455; UNIV MINNESOTA, DIV EPIDEMIOL, MINNEAPOLIS,
 MN 55455; NIH, MED GENET BRANCH, NATL HUMAN GENOME RES INST,
 BETHESDA, MD
- CYA USA
- SO AMERICAN JOURNAL OF HUMAN GENETICS, (JUL 1998) Vol. 63, No. 1, pp. 109-119.

Publisher: UNIV CHICAGO PRESS, 5720 S WOODLAWN AVE, CHICAGO, IL 60637.

ISSN: 0002-9297.

- DT Article; Journal
- FS LIFE; CLIN
- LA English

AB

REC Reference Count: 50

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Myopia, or nearsightedness, is the most common human eye disorder. A genomewide screen was conducted to map the gene(s) associated with high, early-onset, autosomal dominant myopia. Eight families that each included two or more individuals with greater than or equal to-6.00 diopters (D) myopia, in two or more successive generations, were identified. Myopic individuals had no clinical evidence of connective-tissue abnormalities, and the average age at diagnosis of myopia was 6.8 years. The average spherical component refractive error for the affected individuals was -9.48 D. The families contained 82 individuals; of these, DNA was available for 71 (37 affected). Markers nanking or intragenic to the genes for Stickler syndrome types 1 and 2 (chromosomes 12q13.1-q13.3 and 6p21.3, respectively), Marfan syndrome (chromosome 15q21.1), and juvenile glaucoma (chromosome 1q21-q31) were also analyzed. No evidence of linkage was found for markers for the Stickler syndrome types 1 and 2, the Marfan syndrome, or the juvenile glaucoma loci. After a genomewide search, evidence of significant linkage was found on chromosome 18p. The maximum LOD score was 9.59, with marker

D18S481, at a recombination fraction of .0010. Haplotype analysis further refined this myopia locus to a 7.6-cM interval between markers D18S59 and D18S1138 on 18p11.31.

- L29 ANSWER 5 OF 5' MEDLINE
- AN 97417341 MEDLINE
- DN 97417341
- TI A patient with Edwards syndrome caused by a rare pseudodicentric chromosome 18 of paternal origin.
- AU Gravholt C H; Bugge M; Stromkjaer H; Caprani M; Henriques U; Petersen M B; Brandt C A
- CS Department of Biological Psychiatry, Institute for Basic Research, Psychiatric Hospital in Aarhus, Risskov, Denmark.. cg@afdm.aau.dk
- SO CLINICAL GENETICS, (1997 Jul) 52 (1) 56-60. Journal code: DDT. ISSN: 0009-9163.
- CY Denmark
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199712
- EW 19971201
- AB We present an unusual case of trisomy 18 due to a pseudodicentric chromosome 18 of paternal origin. The karyotype was: 46,XY, -18, +psu dic(18)(qter-->cen-->p11.31::p11.31-->psucen-->qter). The origin of the abnormal chromosome was verified by FISH with a painting probe from chromosome 18. Absence of short-arm telomeres was shown by multicolor FISH, and the results of DNA analysis showed monosomy for loci D18S59 and D18S170 as well as paternal inheritance of the aberrant chromosome. The child's phenotype was characteristic of trisomy 18.

(FILE 'MEDLINE' ENTERED AT 14:34:23 ON 05 MAR 1999)

=> d que 137; d que 139

L30	1595	SEA FILE=MEDLINE	ABB=ON PLU=	ON "AFFECTIVE DIS	ORDERS,						
		PSYCHOTIC"/CT									
L31	3290	SEA FILE=MEDLINE	ABB=ON PLU=	ON "MOOD DISORDER	ls"/CT						
L32	13182	SEA FILE=MEDLINE	ABB=ON PLU=	ON "BIPOLAR DISOR	DER"/CT						
L33	1807	SEA FILE=MEDLINE	ABB=ON PLU=	ON "CHROMOSOMES,	HUMAN,						
		PAIR 18"/CT									
L34	55	SEA FILE=MEDLINE	ABB=ON PLU=	ON (L30 OR L31 OF	L32) AND						
		L33									
L35	9636	SEA FILE=MEDLINE	ABB=ON PLU=	ON MUTAGENESIS/CI	•						
L36	26031	SEA FILE=MEDLINE	ABB=ON PLU=	ON "POLYMORPHISM	(GENETICS)						
		"/CT									
L37	1	SEA FILE=MEDLINE	ABB=ON PLU=	ON L34 AND (L35 C	R L36)						

L30	1595	SEA FILE=MEDLINE	ABB=ON	PLU=ON	"AFFECTIVE DISORDERS,
	•	PSYCHOTIC"/CT			
L31	3290	SEA FILE=MEDLINE	ABB=ON	PLU=ON	"MOOD DISORDERS"/CT
L32	13182	SEA FILE=MEDLINE	ABB=ON	PLU=ON	"BIPOLAR DISORDER"/CT
L33	1807	SEA FILE=MEDLINE	ABB=ON	PLU=ON	"CHROMOSOMES, HUMAN,
		PAIR 18"/CT			
L34	55	SEA FILE=MEDLINE	ABB≔ON	PLU=ON	(L30 OR L31 OR L32) AND
		L33			in the an
L38	162916	SEA FILE=MEDLINE	ABB=ON	PLU=ON	G5.632./CT < mutation
L39	0	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L34 AND L38

=> d 137 .beverlymed

ANSWER 1 OF 1 MEDLINE L37

ΔN 97040879 MEDLINE

Linkage disequilibrium analysis of G-olf alpha (GNAL) in bipolar TI affective disorder.

Tsiouris S J; Breschel T S; Xu J; McInnis M G; McMahon F J

AMERICAN JOURNAL OF MEDICAL GENETICS, (1996 Sep 20) 67 (5) 491-4. SO Journal code: 3L4. ISSN: 0148-7299.

This study examines G-olf alpha as a possible candidate gene for AB susceptibility to bipolar affective disorder (BPAD) using the Transmission Disequilibrium Test (TDT). G-olf alpha, which encodes a subunit of a G-protein involved in intracellular signaling, maps within a region of chromosome 18 that has been implicated by two different linkage studies as a potential site of BPAD susceptibility loci. The expression pattern of G-olf alpha in the brain, its coupling to dopamine receptors, and the effects of lithium salts on G-proteins all support G-olf alpha as a candidate gene for BPAD. Our study population consisted of 106 probands and sibs with bipolar I disorder, with a median age-at-onset of 21.5 years ascertained from the United States. There was no evidence of linkage disequilibrium between BPAD and any of the observed G-olf alpha alleles in our sample. Division of families based on sex of the transmitting parent did not significantly change the results. This sample had good power (78%) to detect linkage disequilibrium with alleles conferring a relative risk equal to that estimated for the putative 18p locus (2.58). Our results do not support a major role for G-olf alpha as a susceptibility locus for BPAD in a substantial portion of our sample. Other genes lying near G-olf alpha within the linked region on chromosome 18 cannot be excluded by our data. This study illustrates the use of the TDT in evaluating candidate genes within linked chromosome regions.

FILE 'CAPLUS, MEDLINE, BIOSIS, EMBASE, LIFESCI, BIOTECHDS, WPIDS, CONFSCI, SCISEARCH, JICST-EPLUS, PROMT' ENTERED AT 14:39:27 ON 05 - Author (5) MAR 1999

L40 272 S FREIMER N?/AU

L41 0 S SANDUIJL L?/AU

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842 S LEON P?/AU
L42
            356 S REUS V?/AU
L43
            52 S ESCAMILLA M?/AU
L44
            137 S MCINNES L?/AU
T.45
            91 S SERVICE S?/AU
L46
            373 S SANDKUIJL L?/AU
L47
             16 S L40 AND L47 AND L42 AND L43 AND L44 AND L45 AND L46
L48
             86 S L40 AND (L47 OR L42 OR L43 OR L44 OR L45 OR L46)
L49
             30 S L47 AND (L42 OR L43 OR L44 OR L45 OR L46)
L50
             35 S L42 AND (L43 OR L44 OR L45 OR L46)
L51
             40 S L43 AND (L44 OR L45 OR L46)
L52
             27 S L44 AND (L45 OR L46)
L53
             22 S L45 AND L46
             83 S (L40 OR L47 OR L42 OR L43 OR L44 OR L45 OR L46 OR L49) AND (L1 OR L2 OR
L54
L55
L5)
             92 S L48 OR L50 OR L51 OR L52 OR L53 OR L54 OR L55
L56
                SAV TEMP L56 ARTH976/A
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     CONFSCI, SCISEARCH, JICST-EPLUS, PROMT' ENTERED AT 15:02:25 ON 05
     MAR 1999
                ACT ARTH976/A
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            272) SEA ABB=ON PLU=ON FREIMER N?/AU
L1
             842) SEA ABB=ON PLU=ON LEON P?/AU
T<sub>1</sub>2
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Searcher: Shears 308-4994

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356) SEA ABB=ON PLU=ON REUS V?/AU
L3
            52) SEA ABB=ON PLU=ON ESCAMILLA M?/AU
L4
           137) SEA ABB=ON PLU=ON MCINNES L?/AU
L5
             91) SEA ABB=ON PLU=ON SERVICE S?/AU
L6
            373) SEA ABB=ON PLU=ON SANDKUIJL L?/AU
L7
             16) SEA ABB=ON PLU=ON L1 AND L7 AND L2 AND L3 AND L4 AND
                L5 AND L6
           86) SEA L1 AND (L7 OR L2 OR L3 OR L4 OR L5 OR L6)
L9 (
            30) SEA L7 AND (L2 OR L3 OR L4 OR L5 OR L6)
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            35) SEA L2 AND (L3 OR L4 OR L5 OR L6)
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            27) SEA L4 AND (L5 OR L6)
L13(
            22) SEA L5 AND L6
L14(
            83) SEA (L1 OR L7 OR L2 OR L3 OR L4 OR L5 OR L6 OR L***
L15(
             92 SEA ABB=ON PLU=ON L8 OR L10 OR L11 OR L12 OR L13 OR
L16
             50 DUP REM L16 (42 DUPLICATES REMOVED)
L17
L17 ANSWER 1 OF 50 CAPLUS COPYRIGHT 1999 ACS
     1999:90548 CAPLUS
AN
     Methods and compositions for the diagnosis and treatment of
```

TI

neuropsychiatric disorders

IN Chen, Hong; Freimer, Nelson B.

PA Millennium Pharmaceuticals, Inc., USA; The Regents of the University of California

SO PCT Int. Appl., 117 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 9904825 A1 19990204 WO 98-US15183 19980722

W: AU, CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRAI US 97-898082 19970722

AB The present invention relates to the mammalian fsh05 gene, a novel gene assocd. with bipolar affective

disorder (BAD) in humans. The invention

encompasses fsh05 nucleic acids, recombinant DNA mols., cloned genes or degenerate variants thereof, fsh05 gene products and antibodies directed against such gene products, cloning vectors contg. mammalian fsh05 gene mols., and hosts that have been genetically engineered to express such mols. The invention further relates to methods for the identification of compds. that modulate the expression of fsh05 and to using such compds. as therapeutic agents in the treatment of fsh05 disorders and neuropsychiatric disorders. The invention also relates to methods for the diagnostic evaluation, genetic testing and prognosis of fsh05 disorders and neuropsychiatric disorders including schizophrenia, attention deficit disorder, a schizoaffective

disorder, a bipolar affective

disorder or a unipolar affective disorder

, and to methods and compns. for the treatment of these disorders.

L17 ANSWER 2 OF 50 CAPLUS COPYRIGHT 1999 ACS DUPLICATE 1

AN 1998:672566 CAPLUS

DN 129:286742

TI Fsh16 gene and methods and compositions for the diagnosis and treatment of neuropsychiatric disorders

IN Chen, Hong; Freimer, Nelson B.

PA Millenium Pharmaceuticals, Inc., USA; The Regents of the University of California

SO PCT Int. Appl., 93 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

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APPLICATION NO.
                                                            DATE
                      KIND DATE
     PATENT NO.
                            _____
                                           WO 98-US6210
                                                            19980327
                            19981001
                      A1
     WO 9842726
PΙ
         W: AU, CA, JP
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT. SE
                                           AU 98-67867
                                                            19980327
                            19981020
     AU 9867867
                       Α1
                      19970327
PRAI US 97-828009
     WO 98-US6210
                      19980327
     The present invention relates to the mammalian fsh16 gene, a novel
AB
     gene assocd. with bipolar affective
                               The invention
     disorder (BAD) in humans.
     encompasses fsh16 nucleic acids, recombinant DNA mols., cloned genes
     or degenerate variants thereof, fsh16 gene products and antibodies
     directed against such gene products, cloning vectors contg.
     mammalian fsh16 gene mols., and hosts that have been genetically
     engineered to express such mols. The invention further relates to
     methods for the identification of compds. that modulate the
     expression of fsh16 and to using such compds. as therapeutic agents
     in the treatment of fsh16 disorders and neuropsychiatric disorders.
     The invention also relates to methods for the diagnostic evaluation,
     genetic testing and prognosis of fsh16 disorders and
     neuropsychiatric disorders including schizophrenia,
     attention deficit disorder, a schizoaffective
     disorder, a bipolar affective
     disorder or a unipolar affective disorder
     , and to methods and compns. for the treatment of these
     disorders.
                                                        DUPLICATE 2
     ANSWER 3 OF 50 CAPLUS COPYRIGHT 1999 ACS
L17
     1998:672564 CAPLUS
ΑN
     129:271555
DN
     Fsh15w6 gene and methods and compositions for the diagnosis and
TI
     treatment of neuropsychiatric disorders
     Chen, Hong; Freimer, Nelson B.
IN
     Millenium Pharmaceuticals, Inc., USA; The Regents of the University
PA
     of California
     PCT Int. Appl., 94 pp.
SO
     CODEN: PIXXD2
     Patent
ידת
     English
LA
FAN.CNT 1
                       KIND DATE
                                            APPLICATION NO.
     PATENT NO.
                             _____
                       ____
                                                             19980327
                                            WO 98-US6211
                             19981001
                       A1
 ΡI
     WO 9842724
          W: AU, CA, JP
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
              PT, SE
                                            US 97-828007
                                                             19970327
                             19990202
      US 5866412
                               Searcher : Shears 308-4994
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AU 9867868 A1 19981020 AU 98-67868 19980327 PRAI US 97-828007 19970327

WO 98-US6211 19980327

AB The present invention relates to the mammalian fsh15w6 gene, a novel gene assocd. with bipolar affective

disorder (BAD) in humans. The invention encompasses fsh15w6 nucleic acids, recombinant DNA mols., cloned genes or degenerate variants thereof, fsh15w6 gene products and antibodies directed against such gene products, cloning vectors contg. mammalian fsh15w6 gene mols., and hosts that have been genetically engineered to express such mols. The invention further relates to methods for the identification of compds. that modulate the expression of fsh15w6 and to using such compds. as therapeutic agents in the treatment of fsh15w6 disorders and neuropsychiatric disorders. The invention also relates to methods for the diagnostic evaluation, genetic testing and prognosis of fsh15w6 disorders and neuropsychiatric disorders including schizophrenia, attention deficit disorder, a schizoaffective disorder, a bipolar

affective disorder or a unipolar affective disorder, and to methods and compns. for the treatment of these disorders.

L17 ANSWER 4 OF 50 CAPLUS COPYRIGHT 1999 ACS DUPLICATE 3

AN 1998:672563 CAPLUS

DN 129:286740

TI Fsh22 gene and methods and compositions for the diagnosis and treatment of neuropsychiatric disorders

IN Chen, Hong; Freimer, Nelson B.

PA Millenium Pharmaceuticals, Inc., USA; The Regents of the University of California

SO PCT Int. Appl., 93 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PΙ

PATENT NO. KIND DATE APPLICATION NO. DATE
WO 9842723 Al 19981001 WO 98-US6209 19980327

W: AU, CA, JP

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

AU 9867866 A1 19981020 AU 98-67866 19980327

PRAI US 97-828008 19970327 WO 98-US6209 19980327

AB The present invention relates to the mammalian fsh22 gene, a novel gene assocd. with bipolar affective disorder (BAD) in humans. The invention

encompasses fsh22 nucleic acids, recombinant DNA mols., cloned genes
Searcher: Shears 308-4994

or degenerate variants thereof, fsh22 gene products and antibodies directed against such gene products, cloning vectors contg.

mammalian fsh22 gene mols., and hosts that have been genetically engineered to express such mols. The invention further relates to methods for the identification of compds. that modulate the expression of fsh22 and to using such compds. as therapeutic agents in the treatment of fsh22 disorders and neuropsychiatric disorders. The invention also relates to methods for the diagnostic evaluation, genetic testing and prognosis of fsh22 disorders and neuropsychiatric disorders including schizophrenia, attention deficit disorder, a schizoaffective disorder, a bipolar affective disorder

disorder or a unipolar affective disorder, and to methods and compns. for the treatment of these disorders.

L17 ANSWER 5 OF 50 CAPLUS COPYRIGHT 1999 ACS DUPLICATE 4

AN 1998:672479 CAPLUS

DN 129:287565

TI Methods and compositions for the diagnosis and treatment of neuropsychiatric disorders

IN Chen, Hong; Freimer, Nelson B.

PA Millenium Pharmaceuticals, Inc., USA; The Regents of the University of California

SO PCT Int. Appl., 94 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PALV.	CTAT	1															
		PAT	CENT 1	NO.		KI	ND	DATE			A)	PPLI	CATI	ои ис	o. :	DATE		
	PI	WO 9842362			A1 19981001			WO 98-US6208				19980327						
			W:	AU,	CA,	JP												
			RW:	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LŲ,	MC,	NL,
				PT,	SE													
		AU 9867865		A1 19981020			AU 98-67865					19980327						
	PRAI	PRAI US 97-828010		19970327								1						
WO 98-US6208			19	19980327														

AB The present invention relates to the mammalian fsh05 gene, a novel gene assocd. with bipolar affective disorder (BAD) in humans. The invention encompasses fsh05 nucleic acids, recombinant DNA mols., cloned genes or degenerate variants thereof, fsh05 gene products and antibodies directed against such gene products, cloning vectors contg. mammalian fsh05 gene mols., and hosts that have been genetically engineered to express such mols. The invention further relates to methods for the identification of compds. that modulate the expression of fsh05 and to using such compds. as therapeutic agents in the treatment of fsh05 disorders and neuropsychiatric disorders.

The invention also relates to methods for the diagnostic evaluation, genetic testing and prognosis of fsh05 disorders and neuropsychiatric disorders including schizophrenia, attention deficit disorder, a schizoaffective disorder, a bipolar affective disorder or a unipolar affective disorder , and to methods and compns. for the treatment of these disorders.

- ANSWER 6 OF 50 BIOTECHDS COPYRIGHT 1999 DERWENT INFORMATION LTD L17
- AN99-00101 BIOTECHDS
- New isolated human fsh22 gene; TI

recombinant protein and encoding DNA for use in neuropsychiatric disease diagnosis, therapy and drug screening

- ΑU Chen H; Freimer N B
- PA Millennium-Pharm.; Univ.California
- LO Cambridge, MA, USA; Oakland, CA, USA.
- PIWO 9842723 1 Oct 1998
- WO 98-US6209 27 Mar 1998 AΙ
- PRAI US 97-828008 27 Mar 1997
- DTPatent
- LΑ English
- OS WPI: 98-542272 [46]
- AN99-00101 BIOTECHDS
- A nucleic acid molecule (I) encoding a protein of disclosed protein AB sequence disclosed or encoding a protein encoded by an insert in clone ATCC 98350 is claimed. Also claimed are: nucleic acid hybridizing with the complement of the (I) and encoding a protein involved in a neuropsychiatric disease; (I) which hybridizes under stringent conditions to the complement of (I); a vector containing the disclosed nucleotide sequences; a genetically engineered host cell containing (I); an isolated gene product comprising the disclosed protein sequence or the sequence encoded by the insert of clone ATCC 98350; a gene product encoded by (I); an antibody binding a gene product; a method for therapy of a neuropsychiatric disease in a mammal, which involves administering to the mammal a compound that modulates the synthesis, expression or activity of a mammalian fsh22 gene or gsh22 gene product so that symptoms of the disease are ameliorated; and mapping a human chromosome-18q region spanning DS18S1121 and 18SS30 markers. Gene therapy, transgenic animals, polyclonal, monoclonal, chimeric and humanized antibodies and drug screening are disclosed.
- L17 ANSWER 7 OF 50 CAPLUS COPYRIGHT 1999 ACS DUPLICATE 5
- ΔN 1998:481288 CAPLUS
- DN 129:184709
- TIMapping genes for psychiatric disorders and behavioral traits
- ΑU Mcinnes, L. Alison; Reus, Victor I.; Freimer, Nelson B.

- CS Neurogenetics Laboratory, San Francisco, CA, 94117, USA
- SO Curr. Opin. Genet. Dev. (1998), 8(3), 287-292 CODEN: COGDET; ISSN: 0959-437X
- PB Current Biology Ltd.
- DT Journal; General Review
- LA English
- AB A review with several refs. In the past year, findings from genetic studies in non-human organisms have yielded a no. of exciting insights regarding the genetic basis of complex behaviors. Although there were encouraging developments in the genetic study of human behavioral traits, particularly those involved with cognitive function, there was relatively little progress in genetic mapping of the most common psychiatric phenotypes.
- L17 ANSWER 8 OF 50 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V.
- AN 1998251907 EMBASE
- TI Chromosome 18 workshop.
- AU Van Broeckhoven C.; Verheyen G.; Aita V.M.; Cichon S.; Craddock N.; DeLisi L.E.; Escamilla M.A.; Esterling L.E.; Ewald H.; Levinson D.F.; MacKinnon D.F.; McInnes L.A.; Merette C.; Murphy V.; Owen M.; Shaw S.H.; Straub R.E.; Turecki G.; Wildenauer D.B.
- CS C. Van Broeckhoven, Neurogenetics Laboratory, University of Antwerp, Department of Biochemistry, Antwerp, Belgium
- SO Psychiatric Genetics, (1998) 8/2 (97-108). Refs: 39

ISSN: 0955-8829 CODEN: PSGEEX

- CY United Kingdom
- DT Journal; Conference Article
- FS 005 General Pathology and Pathological Anatomy 022 Human Genetics
 - 032 Psychiatry
- LA English
- L17 ANSWER 9 OF 50 MEDLINE
- AN 97342900 MEDLINE
- DN 97342900
- TI Understanding the genetic basis of mood disorders: where do we stand? [comment].
- CM Comment on: Am J Hum Genet 1997 Jun; 60(6):1265-75
- AU Reus V I; Freimer N B
- CS Department of Psychiatry, University of California, San Francisco 94143-0984, USA.. vir@itsa.ucsf.edu
- SO AMERICAN JOURNAL OF HUMAN GENETICS, (1997 Jun) 60 (6) 1283-8. Ref: 40
 - Journal code: 3IM. ISSN: 0002-9297.
- CY United States
- DT Commentary
 - Journal; Article; (JOURNAL ARTICLE)

vasopressin throughout the CNS via either peptidergic neurons or the controlling behavioral or physiological processes. Among the CSF and provide the means by which vasopressin may regulate cells significance in the symptom-complex of affective illness, processes which vasopressin can influence are several of vasopressin; well-developed systems exist for the distribution of electrolyte balance. Vasopressin is functionally linked to monoamine synchronization of biological rhythms, the timing and quality of REM pharmacological and clinical data suggest that vasopressin function pharmacological agents which affect mood. neurotransmitter systems and, like them, is altered by including alterations in memory, changes in pain sensitivity, that vasopressin plays a role in disorders of human during crucial periods of the manic-depressive cycle. The hypothesis the administration of specific vasopressin analogs and inhibitors. tested by radioimmunoassays of vasopressin in CSF and plasma and by behavior, particularly manic-depressive illness, can now be directly however, alterations in vasopressin function may be detectable only is diminished in depression and augmented in mania; sometimes, [rapid eye movement] sleep, and the regulation of fluid and Some of the

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General Review; (REVIEW)
     (REVIEW, TUTORIAL)
     English
LΑ
FS
     Priority Journals
EM
     199709
                                                        DUPLICATE 6
    ANSWER 10 OF 50 CAPLUS COPYRIGHT 1999 ACS
L17
     1997:679203 CAPLUS
AN
DN
     127:327441
     Methods for detecting bipolar mood disorder
ΤI
     susceptibility locus on human chromosome 18q
     Friemer, Nelson B.; Leon, Pedro; Reus, Victor I.
TN
     ; Sandkuijl, Lodewijk A.; Barondes, Samuel H.
     Regents of the University of California, USA; Friemer, Nelson B.;
PΑ
     Leon, Pedro; Reus, Victor I.; Sandkuijl, Lodewijk A.; Barondes,
     Samuel H.
     PCT Int. Appl., 51 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LΑ
FAN.CNT 1
                                           APPLICATION NO.
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                                                             19970327
                                           WO 97-US4904
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                            19971009
     WO 9737043
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             AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP,
             KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT,
             UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR,
             GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
             GA, GN, ML, MR, NE, SN, TD, TG
                                            AU 97-24238
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     AU 9724238
                       A1
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                                            WO 97-US14892
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                             19980226
     WO 9807887
            AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP,
             KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
             TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,
         RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
             FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, ML, MR, NE, SN, TD, TG
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                                           AU 97-41604
                             19980306
     AU 9741604
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PRAI US 96-14498
                      19960329
     US 96-23438
                      19960823
                      19970327
     WO 97-US4904
                      19970822
     WO 97-US14892
     The present invention is directed to methods of detecting the
AB
                               Searcher: Shears 308-4994
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presence of a bipolar mood disorder susceptibility locus in an individual, comprising analyzing a sample of DNA for the presence of a DNA polymorphism on the long arm of chromosome 18 between markers D18S469 and D18S554, wherein the DNA polymorphism is assocd. with a form of bipolar mood disorder (BP). The invention for the first time provides strong evidence of a susceptibility gene for BP that is located in the 18q22-q23 region of the long arm of chromosome 18. The disclosure describes the use of linkage anal. and genetic markers in the 18q22-q23 region to fine map the region and the use of genetic markers to genetically diagnose (genotype) BP in individuals, to confirm phenotypic diagnoses of BP, to det. appropriate treatments for patients with particular genotypic subtypes. Isolated polynucleotides useful for genetic linkage anal. of BP-I and methods for obtaining such isolated polynucleotides are also described. In screening for a BP susceptibility locus, only those individuals with the most severe and clin. distinctive form of BP were considered as affected. Two large pedigrees were selected from a genetically homogeneous population, that of the Central Valley of Costa Rica. The entire human genome was screened for linkage using mapped microsatellite markers and a model for genetic anal. in which most of the linkage information derived from affected Three lines of evidence supported the localization of individuals. a BP susceptibility locus to 18q22-q23: assocn. anal., linkage anal., and direct observation of a conserved marker haplotype.

- L17 ANSWER 11 OF 50 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 1998:76133 SCISEARCH
- GA The Genuine Article (R) Number: YQ995
- TI Population based genetic mapping of bipolar disorder (BP) in Costa Rica
- AU Escamilla M A (Reprint); McInnes L A; Spesny M;
 Reus V I; Service S; Shimayoshi N; Tyler D; Batki
 S; Vinogradov S; Neylan T; Molina J; Meza L; Gallegos A; Mendez R;
 Fournier E; Mathews C; Emch D; DeMille M; Leon P; Roche E;
 Silva S; Sandkuijl L; Freimer N B
- CS UNIV CALIF SAN FRANCISCO, DEPT PSYCHIAT, CTR NEUROBIOL & PSYCHIAT, SAN FRANCISCO, CA 94143; UNIV COSTA RICA, SAN JOSE, COSTA RICA; ERASMUS UNIV ROTTERDAM, NL-3000 DR ROTTERDAM, NETHERLANDS; LEIDEN UNIV, NL-2300 RA LEIDEN, NETHERLANDS
- CYA USA; COSTA RICA; NETHERLANDS
- SO AMERICAN JOURNAL OF HUMAN GENETICS, (OCT 1997) Vol. 61, No. 4, Supp. [S], pp. 1598-1598.

 Publisher: UNIV CHICAGO PRESS, 5720 S WOODLAWN AVE, CHICAGO, IL 60637.
 - ISSN: 0002-9297.
- DT Conference; Journal
- FS LIFE; CLIN
- LA English

REC Reference Count: 0

- L17 ANSWER 12 OF 50 LIFESCI COPYRIGHT 1999 CSA DUPLICATE 7
- AN 1998:15789 LIFESCI
- TI Understanding the genetic basis of mood disorders: Where do we stand?
- AU Reus, V.I.; Freimer, N.B.
- CS Center for Neurobiology and Psychiatry, Department of Psychiatry, University of California, San Francisco, 401 Parnassus Avenue, San Francisco, CA 94143-0984, USA
- SO AM. J. HUM. GENET., (19970600) vol. 60, no. 6, pp. 1283-1288. ISSN: 0002-9297.
- DT Journal
- TC General Review
- FS G; N3
- LA English
- SL English
- AB In this issue of the Journal, Sherman et al. describe the promise of genetic approaches for understanding human behavior and point out a number of obstacles to realization of this promise; these include the methodological challenge of identifying genes for complex traits and the societal challenge of appropriately using the information that will be gained if such genetic-mapping efforts are successful. Genetic-mapping studies in humans rest on the premise that traits of interest can be reduced to one or more discrete phenotypes and that these phenotypes result, at least in part, from particular alleles at susceptibility loci of reasonably large effect. As discussed in this review, abundant evidence suggests that severe bipolar mood disorder (BP) fulfills this premise better than other human behavioral traits. The diagnosis of BP is highly reliable, and its delineation as a distinct syndrome has proved to be clinically useful in predicting course and response to treatment. However, one must keep in mind that this diagnostic category, like all psychiatric classifications, is based on operational criteria (derived from a combination of epidemiological and clinical observations), rather than on any anatomical or physiological evidence. This fact differentiates psychiatric disorders from other etiologically complex categories of disease, such as hypertension or diabetes mellitus. In this review we discuss our current understanding of the genetic basis of BP and other mood disorders and indicate how our body of knowledge has been influenced by different approaches to the definition of disease phenotypes.
- L17 ANSWER 13 OF 50 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 97:852348 SCISEARCH
- GA The Genuine Article (R) Number: YB414
- Fine mapping of a locus for severe bipolar mood disorder in the Costa Rican population using linkage

 Searcher: Shears 308-4994

disequilibrium methods.

- AU McInnes L A (Reprint); Barnes G T; Barondes S; Batki S; Chen H; Charlat O; Crook S; Duyk G M; Escamilla M E; Fournier E; Gallegos A; Gajiwala P; Gitt M; Jawalar S; Leon P; Luo D; Matthews C; Meza L; Molina J; Neylan T; Sandkuijl L; Service S K; Silva S; Spesny M; Reus V I; Roche E; Rojas E; Freimer N B
- CS UNIV CALIF SAN FRANCISCO, DEPT PSYCHIAT, CTR NEUROBIOL & PSYCHIAT, SAN FRANCISCO, CA 94143; MILLENNIUM PHARMACEUT, CAMBRIDGE, MA; UNIV CALIF SAN FRANCISCO, SAN FRANCISCO GEN HOSP, SAN FRANCISCO, CA; UNIV COSTA RICA, CELL & MOL BIOL RES CTR, SAN JOSE, COSTA RICA; UNIV COSTA RICA, ESCUELA MED, SAN JOSE, COSTA RICA; HOSP CALDERON GUARDIA, SAN JOSE, COSTA RICA; ERASMUS UNIV ROTTERDAM, DEPT CLIN GENET, NL-3000 DR ROTTERDAM, NETHERLANDS; LEIDEN UNIV, DEPT HUMAN GENET, NL-2300 RA LEIDEN, NETHERLANDS; UNIV GRONINGEN, DEPT MED GENET, NL-9700 AB GRONINGEN, NETHERLANDS; UNIV CALIF SAN FRANCISCO, GENET PROGRAM, SAN FRANCISCO, CA 94143; UNIV CALIF SAN FRANCISCO, PROGRAM BIOMED SCI, SAN FRANCISCO, CA 94143
- CYA USA; COSTA RICA; NETHERLANDS
- SO AMERICAN JOURNAL OF MEDICAL GENETICS, (21 NOV 1997) Vol. 74, No. 6, pp. 674-674.

 Publisher: WILEY-LISS, DIV JOHN WILEY & SONS INC, 605 THIRD AVE, NEW YORK, NY 10158-0012.

 ISSN: 0148-7299.
- DT Conference; Journal
- FS LIFE
- LA English
- REC Reference Count: 0
- L17 ANSWER 14 OF 50 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 97:852342 SCISEARCH
- GA The Genuine Article (R) Number: YB414
- TI Linkage disequilibrium analysis of bipolar disorder in the Costa Rican population.
- AU Escamilla M A (Reprint); McInnes L A; Spesny M;
 Reus V I; Shimayoshi N; Tyler D; Batki S; Vinogrado S;
 Neylan T; Meza L; Gallegos A; Fournier E; Emch D; DeMille M;
 Leon P; Service S; Roche E; Silva S;
 Sandkuijl L; Freimer N B
- CS UNIV CALIF SAN FRANCISCO, DEPT PSYCHIAT, CTR NEUROBIOL & PSYCHIAT, SAN FRANCISCO, CA 94143; ERASMUS UNIV ROTTERDAM, ROTTERDAM, NETHERLANDS; LEIDEN UNIV, NL-2300 RA LEIDEN, NETHERLANDS
- CYA USA; NETHERLANDS
- SO AMERICAN JOURNAL OF MEDICAL GENETICS, (21 NOV 1997) Vol. 74, No. 6, pp. 672-672.

 Publisher: WILEY-LISS, DIV JOHN WILEY & SONS INC, 605 THIRD AVE, NEW YORK, NY 10158-0012.

 ISSN: 0148-7299.
- DT Conference; Journal

- FS LIFE
- LA English
- REC Reference Count: 0
- L17 ANSWER 15 OF 50 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 97:852265 SCISEARCH
- GA The Genuine Article (R) Number: YB414
- TI Linkage disequilibrium mapping of schizophrenia in the Costa Rican population.
- AU Escamilla M A (Reprint); Raventos H; Montero P; Vinogradov S; Armas R; Reus V I; Gallegos A; Badilla R; Molina J
- CS UNIV CALIF SAN FRANCISCO, DEPT PSYCHIAT, CTR NEUROBIOL & PSYCHIAT, SAN FRANCISCO, CA 94143; UNIV COSTA RICA, ESCUELA MED, SAN JOSE, COSTA RICA
- CYA USA; COSTA RICA
- SO AMERICAN JOURNAL OF MEDICAL GENETICS, (21 NOV 1997) Vol. 74, No. 6, pp. 650-650.

 Publisher: WILEY-LISS, DIV JOHN WILEY & SONS INC, 605 THIRD AVE, NEW YORK, NY 10158-0012.

 ISSN: 0148-7299.
- DT Conference; Journal
- FS LIFE
- LA English
- REC Reference Count: 0
- L17 ANSWER 16 OF 50 BIOSIS COPYRIGHT 1999 BIOSIS
- AN 1998:111519 BIOSIS
- DN PREV199800111519
- TI Population based genetic mapping of bipolar disorder (BP) in Costa Rica.
- AU Escamilla, M. A. (1); McInnes, L. A. (1);
 Spesny, M.; Reus, V. I. (1); Service, S. (1);
 Shimayoshi, N. (1); Tyler, D. (1); Batki, S. (1); Vinogradov, S. (1); Neylan, T. (1); Molina, J.; Meza, L.; Gallegos, A.; Mendez, R.; Fournier, E.; Mathews, C. (1); Emch, D. (1); Demille, M. (1); Leon, P.; Roche, E. (1); Silva, S.; Sandkuijl, L.; Freimer, N. B. (1)
- CS (1) Center Neurobiol. and Psychiatry, Dep. Psychiatry, Univ. California at San Francisco, San Francisco, CA USA
- SO American Journal of Human Genetics, (Oct., 1997) Vol. 61, No. 4
 SUPPL., pp. A274.
 Meeting Info.: 47th Annual Meeting of the American Society of Human
 Genetics Baltimore, Maryland, USA October 28-November 1, 1997
 ISSN: 0002-9297.
- DT Conference
- LA English
- L17 ANSWER 17 OF 50 CAPLUS COPYRIGHT 1999 ACS DUPLICATE 8
- AN 1996:689777 CAPLUS
- Searcher: Shears 308-4994

- DN 126:5800
- TI A complete genome screen for genes predisposing to severe bipolar disorder in two Costa Rican pedigrees
- AU McInnes, L. Alison; Escamilla, Michael A.; Service, Susan K.; Reus, Victor I.; Leon, Pedro; Silva, Sandra; Rojas, Eugenia; Spesny, Mitzi; Baharloo, Siamak; et al.
- CS Neurogenet. Lab., Univ. California, San Francisco, CA, 94143, USA
- SO Proc. Natl. Acad. Sci. U. S. A. (1996), 93(23), 13060-13065 CODEN: PNASA6; ISSN: 0027-8424
- PB National Academy of Sciences
- DT Journal
- LA English
- Bipolar mood disorder (BP) is a AΒ debilitating syndrome characterized by episodes of mania and depression. We designed a multistage study to detect all major loci predisposing to severe BP (termed BP-I) in two pedigrees drawn from the Central Valley of Costa Rica, where the population is largely descended from a few founders in the 16th-18th centuries. We considered only individuals with BP-I as affected and screened the genome for linkage with 473 microsatellite markers. We used a model for linkage anal. that incorporated a high phenocopy rate and a conservative est. of penetrance. Our goal in this study was not to establish definitive linkage but rather to detect all regions possibly harboring major genes for BP-I in these pedigrees. To facilitate this aim, we evaluated the degree to which markers that were informative in our data set provided coverage of each genome region; we est. that at least 94% of the genome has been covered, at a predesignated threshold detd. through prior linkage simulation analyses. We report here the results of our genome screen for BP-I loci and indicate several regions that merit further study, including segments in 18q, 18p, and 11p, in which suggestive lod scores were obsd. for two or more contiguous markers. Isolated lod scores that exceeded our thresholds in one or both families also occurred on chromosomes 1, 2, 3, 4, 5, 7, 13, 15, 16, and 17. Interesting regions highlighted in this genome screen will be followed up using linkage disequil (LD) methods.
- L17 ANSWER 18 OF 50 LIFESCI COPYRIGHT 1999 CSA
- AN 97:38966 LIFESCI
- TI A complete genome screen for genes predisposing to severe bipolar disorder in two Costa Rican pedigrees
- AU McInnes, L.A.; Escamilla, M.A.; Service, S.K.; Reus, V.I.; Leon, P.; Silva, S.; Rojas, E.; Spesny, M.; Freimer, N.B.*; et al.
- CS Univ. California, Box F-0984, San Francisco, CA 94143, USA
- SO PROC. NATL. ACAD. SCI. USA, (1996) vol. 93, no. 24, pp. 13060-13065. ISSN: 0027-8424.
- DT Journal

- FS G; N3
- LA English
- SL English

AB

- Bipolar mood disorder (BP) is a debilitating syndrome characterized by episodes of mania and depression. We designed a multistage study to detect all major loci predisposing to severe BP (termed BP-I) in two pedigrees drawn from the Central Valley of Costa Rica, where the population is largely descended from a few founders in the 16th-18th centuries. We considered only individuals with BP-I as affected and screened the genome for linkage with 473 microsatellite markers. We used a model for linkage analysis that incorporated a high phenocopy rate and a conservative estimate of penetrance. Our goal in this study was not to establish definitive linkage but rather to detect all regions possibly harboring major genes for BP-I in these pedigrees. To facilitate this aim, we evaluated the degree to which markers that were informative in our data set provided coverage of each genome region; we estimate that at least 94% of the genome has been covered, at a predesignated threshold determined through prior linkage simulation analyses. We report here the results of our genome screen for BP-I loci and indicate several regions that merit further study, including segments in 18q, 18p, and 11p, in which suggestive lod scores were observed for two or more contiguous markers. Isolated lod scores that exceeded our thresholds in one or both families also occurred on chromosomes 1, 2, 3, 4, 5, 7, 13, 15, 16, and 17. Interesting regions highlighted in this genome screen will be followed up using linkage disequilibrium (LD) methods.
- L17 ANSWER 19 OF 50 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 96:891440 SCISEARCH
- GA The Genuine Article (R) Number: VV138
- TI Additional support for schizophrenia linkage on chromosomes 6 and 8: A multicenter study
- ΑU Levinson D F (Reprint); Wildenauer D B; Schwab S G; Albus M; Hallmayer J; Lerer B; Maier W; Blackwood D; Muir W; StClair D; Morris S; Moises H W; Yang L; Kristbjarnarson H; Helgason T; Wiese C; Collier D A; Holmans P; Daniels J; Rees M; Asherson P; Roberts Q; Cardno A; Arranz M J; Vallada H; McGuffin D; Owen M J; Pulver A E; Antonarakis S E; Babb R; Blouin J L; DeMarchi N; Dombroski B; Housman D; Karayiorgou M; Ott J; Kasch L; Kazazian H; Lasseter V K; Loetscher E; Luebbert H; Nestadt G; Ton C; Wolyniec P S; Laurent C; deChaldee M; Thibaut F; Jay M; Samolyk D; Petit M; Campion D; Mallet J; Straub R E; MacLean C J; Easter S M; ONeill F A; Walsh D; Kendler K S; Gejman P V; Cao Q H; Gershon E; Badner J; Beshah E; Zhang J; Riley B P; Rajagopalan S; MogudiCarter M; Jenkins T; Williamson R; DeLisi L E; Garner C; Kelly M; LeDuc C; Cardon L; Lichter J; Harris T; Loftus J; Shields G; Comasi M; Vita A; Smith A; Dann J; Joslyn G; Gurling H; Kalsi G; Brynjolfsson J; Curtis D; Sigmundsson T; Butler Searcher : Shears 308-4994

R; Read T; Murphy P; Chen A C H; Petursson H; Byerley B; Hoff M; Holik J; Coon H; Nancarrow D J; Crowe R R; Andreasen N; Silverman J M; Mohs R C; Siever L J; Endicott J; Sharpe L; Walters M K; Lennon D P; Hayward N K; Sandkuijl L A; Mowry B J; Aschauer H N; Meszaros K; Lenzinger E; Fuchs K; Heiden A M; Kruglyak L; Daly M J; Matise T C

CS UNIV BONN, DEPT PSYCHIAT, D-5300 BONN, GERMANY (Reprint); STATE MENTAL HOSP, HAAR, GERMANY; UNIV WESTERN AUSTRALIA, GRAYLANDS UWA CLIN RES UNIT, PERTH, WA 6009, AUSTRALIA; HEBREW UNIV JERUSALEM, HADASSAH MED CTR, DEPT PSYCHIAT, JERUSALEM, ISRAEL; UNIV EDINBURGH, ROYAL EDINBURGH HOSP, DEPT PSYCHIAT, EDINBURGH EH8 9YL, MIDLOTHIAN, SCOTLAND; WESTERN GEN HOSP, HUMAN GENET UNIT, MRC, EDINBURGH, MIDLOTHIAN, SCOTLAND; NATL UNIV HOSP, DEPT PSYCHIAT, REYKJAVIK, ICELAND; UNIV KIEL KLINIKUM, DEPT PSYCHIAT, KIEL, GERMANY; INST PSYCHIAT, DEPT PSYCHOL MED, MOL GENET SECT, LONDON SE5 8AF, ENGLAND; INST PSYCHIAT, DEPT NEUROPATHOL, MOL GENET SECT, LONDON SE5 8AF, ENGLAND; UNIV WALES COLL MED, DEPT PSYCHOL MED, CARDIFF CF4 4XN, S GLAM, WALES; UNIV WALES COLL MED, DEPT MED GENET, CARDIFF CF4 4XN, S GLAM, WALES; TEIKYO UNIV, SCH MED, DEPT PSYCHIAT, TOKYO 173, JAPAN; ST JAMES HOSP, TRINITY CTR HLTH SCI, DUBLIN 8, IRELAND; JOHNS HOPKINS UNIV, DEPT PEDIAT, BALTIMORE, MD 21218; JOHNS HOPKINS UNIV, DEPT PSYCHIAT & BEHAV SCI, BALTIMORE, MD 21218; UNIV GENEVA, DEPT GENET, SCH MED, CH-1211 GENEVA 4, SWITZERLAND; UNIV NAPLES 2, INST PSYCHIAT, NAPLES, ITALY; UNIV PENN, MED CTR, DEPT GENET, PHILADELPHIA, PA 19104; MIT, CTR CANC RES, CAMBRIDGE, MA 02139; ROCKEFELLER UNIV, HUMAN NEUROGENET LAB, NEW YORK, NY 10021; ROCKEFELLER UNIV, LAB STAT GENET, NEW YORK, NY 10021; SANDOZ PHARMA LTD, BASEL, SWITZERLAND; HOP LA PITIE SALPETRIERE, LAB GENET MOL NEUROTRANSMISS & PROC NEURODEGENER, CNRS, PARIS, FRANCE; CHS ST PAUL, ST PAUL, REUNION; CHS SOTTEVILLE, ROUEN, FRANCE; VIRGINIA COMMONWEALTH UNIV, MED COLL VIRGINIA, DEPT PSYCHIAT, RICHMOND, VA 23298; VIRGINIA COMMONWEALTH UNIV, MED COLL VIRGINIA, DEPT HUMAN GENET, RICHMOND, VA 23298; UNIV QUEENSLAND, DEPT PSYCHIAT, BELFAST, ANTRIM, NORTH IRELAND; HLTH RES BOARD, DUBLIN, IRELAND; NIMH, CLIN NEUROGENET BRANCH, BETHESDA, MD 20892; ST MARYS HOSP, SCH MED, DEPT BIOCHEM & MOL GENET, LONDON W2 1PG, ENGLAND; BARAGWANATH HOSP, DEPT PSYCHIAT, SOWETO, SOUTH AFRICA; UNIV WITWATERSRAND, DEPT HUMAN GENET, SCH PATHOL, S AFRICAN INST MED RES, JOHANNESBURG, SOUTH AFRICA; SEQUANA THERAPEUT INC, SAN DIEGO, CA; SUNY STONY BROOK, DEPT PSYCHIAT, STONY BROOK, NY 11794; WARNEFORD HOSP, DEPT PSYCHIAT, OXFORD OX3 7JX, ENGLAND; UNIV MILAN, I-20122 MILAN, ITALY; UNIV COLL LONDON, SCH MED, MOL PSYCHIAT LAB, DEPT PSYCHIAT, LONDON W1N 8AA, ENGLAND; UNIV ICELAND, DEPT PSYCHIAT, BORGARSPITINN, IS-101 REYKJAVIK, ICELAND; LONDON HOSP, COLL MED, DEPT PSYCHOL MED, LONDON, ENGLAND; UNIV UTAH, MED CTR, DEPT PSYCHIAT, SALT LAKE CITY, UT; ALLEGHENY UNIV HLTH SCI, DEPT PSYCHIAT, PHILADELPHIA, PA 19102; UNIV QUEENSLAND, DEPT PSYCHIAT, WOLSTON PK HOSP, BRISBANE, QLD, AUSTRALIA; QUEENSLAND INST MED RES, BRISBANE, QLD 4006, AUSTRALIA; UNIV IOWA, COLL MED, DEPT PSYCHIAT, IOWA CITY, IA 52242; UNIV IOWA, Searcher: Shears 308-4994

COLL MED, MENTAL HLTH CLIN RES CTR, IOWA CITY, IA 52242; MT SINAI SCH MED, DEPT PSYCHIAT, NEW YORK, NY; COLUMBIA UNIV, NEW YORK STATE PSYCHIAT INST, NEW YORK, NY; ERASMUS UNIV, DEPT CLIN GENET, NL-3000 DR ROTTERDAM, NETHERLANDS; LEIDEN UNIV, DEPT GENET, NL-2300 RA LEIDEN, NETHERLANDS; UNIV GRONINGEN, DEPT MED GENET, NL-9700 AB GRONINGEN, NETHERLANDS; UNIV VIENNA, HOSP PSYCHIAT, DEPT GEN PSYCHIAT, VIENNA, AUSTRIA; COLUMBIA UNIV COLL PHYS & SURG, DEPT PSYCHIAT, NEW YORK, NY 10032; WHITEHEAD INST BIOMED RES, CAMBRIDGE, MA

- CYA GERMANY; AUSTRALIA; ISRAEL; SCOTLAND; ICELAND; ENGLAND; WALES; JAPAN; IRELAND; USA; SWITZERLAND; ITALY; FRANCE; REUNION; NORTH IRELAND; SOUTH AFRICA; NETHERLANDS; AUSTRIA
- SO AMERICAN JOURNAL OF MEDICAL GENETICS, (22 NOV 1996) Vol. 67, No. 6, pp. 580-594.

 Publisher: WILEY-LISS, DIV JOHN WILEY & SONS INC 605 THIRD AVE, NEW YORK, NY 10158-0012.

ISSN: 0148-7299.

- DT Article; Journal
- FS LIFE

AΒ

- LA English
- REC Reference Count: 55
 - *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*

In response to reported schizophrenia linkage findings on chromosomes 3, 6 and 8, fourteen research groups genotyped 14 microsatellite markers in an unbiased, collaborative (New) sample of 403-567 informative pedigrees per marker, and in the Original sample which produced each finding (the Johns Hopkins University sample of 40-52 informative pedigrees for chromosomes 3 and 8, and the Medical College of Virginia sample of 156-191 informative pedigrees for chromosome 6). Primary planned analyses (New sample) were two-point heterogeneity lod score (lod2) tests (dominant and recessive affected-only models), and multipoint affected sibling pair (ASP) analysis, with a narrow diagnostic model schizophrenia and schizoaffective disorders), Regions with positive results were also analyzed in the Original and Combined samples. There was no evidence for linkage on chromosome 3. For chromosome 6, ASP maximum lod scores (MLS) were 2.19 (New sample, nominal p = .001) and. 2.68 (Combined sample, p = .0004). For chromosome 8, maximum lod2 scores (tests of linkage with heterogeneity) were 2.22 (New sample, p = .0014) and 3.06 (Combined sample, p = .00018). Results are interpreted as inconclusive hut suggestive of linkage in the latter two regions. We discuss possible reasons for failing to achieve a conclusive result in this large sample, Design issues and limitations of this type of collaborative study are discussed, and it is concluded that multicenter follow-up linkage studies of complex disorders can help to direct research efforts toward promising regions.

L17 ANSWER 20 OF 50 MEDLINE

DUPLICATE 9

- AN 96416031 MEDLINE
- DN 96416031
- TI Attitudes towards bipolar disorder and predictive genetic testing among patients and providers.
- AU Smith L B; Sapers B; Reus V I; Freimer N B
- CS Department of Psychiatry, University of California at San Francisco 94143-0984, USA.
- NC MH 00916 (NIMH) MH 49499 (NIMH)
- SO JOURNAL OF MEDICAL GENETICS, (1996 Jul) 33 (7) 544-9. Journal code: J1F. ISSN: 0022-2593.
- CY ENGLAND: United Kingdom
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199702
- Attitudes about bipolar disorder (manic AB depressive disorder) and genetic testing were investigated. Three groups of subjects were surveyed including members of a manic depressive support group, medical students, and psychiatry residents. The questionnaire was intended to elicit impressions and attitudes about bipolar disorder (BP) from mental health consumers and health care providers with varying levels of personal and professional familiarity with the disorder. Attitudes towards prenatal testing and pregnancy termination were also assessed. The intention hypothetically to terminate a pregnancy was influenced by the likelihood of developing BP a well as the projected course and severity of illness. Nearly half of the total sample would terminate pregnancy if the fetus were definitely to develop an unspecified form of bipolar disorder. Presumed severity of illness was also found to be a modifying factor in the decision, with a low percentage of subjects electing to terminate for a mild course of bipolar disorder and a majority opting for termination in the case of an extremely severe presentation. Support group members were the least likely to terminate a hypothetical pregnancy in the case of a positive prenatal test and were the most likely to desire childhood testing in the absence of preventive or treatment options. The possible implications of these findings, as well as avenues of future research, are discussed.
- L17 ANSWER 21 OF 50 CAPLUS COPYRIGHT 1999 ACS DUPLICATE 10
- AN 1996:312108 CAPLUS
- DN 125:2666
- TI Genetic mapping using haplotype, association and linkage methods suggests a locus for severe **bipolar disorder** (
 BPI) at 18q22-q23
- AU Freimer, Nelson B.; Reus, Victor I.;

Escamilla, Michael A.; McInnes, L. Alison; Spesny, Mitzi; Leon, Pedro; Service, Susan K.; Smith, Lauren B.; Silva, Sandra; et al.

- CS Neurogenetics Laboratory, Univ. of California San Francisco, San Francisco, CA, 94143, USA
- SO Nat. Genet. (1996), 12(4), 436-441 CODEN: NGENEC; ISSN: 1061-4036
- DT Journal
- LA English
- AB Manic-depressive illness, or bipolar disorder (BP), is characterized by episodes of elevated mood (mania) and depression1: We designed a multistage study in the genetically isolated population of the Central Valley of Costa Rica2,3 to identify genes that promote susceptibility to severe BP (termed BPI), and screened the genome of two Costa Rican BPI pedigrees (McInnes et al., submitted). We considered only individuals who fulfilled very stringent diagnostic criteria for BPI to be affected. The strongest evidence for a BPI locus was obsd. in 18q22-q23. We tested 16 addnl. markers in this region and seven yielded peak lod scores over 1.0. These suggestive lod scores were obtained over a far greater chromosomal length (about 40 cM) than in any other genome region. This localization is supported by marker haplotypes shared by 23 of 26 BPI affected individuals studied. Addnl., marker allele frequencies over portions of this region are significantly different in the patient sample from those of the general Costa Rican population. Finally, we performed an anal. which made use of both the evidence for linkage and for assocn. in 18q23, and we obsd. significant lod scores for two markers in this region.
- L17 ANSWER 22 OF 50 MEDLINE

DUPLICATE 11

- AN 96348620 MEDLINE
- DN 96348620
- TI An approach to investigating linkage for bipolar disorder using large Costa Rican pedigrees.
- AU Freimer N B; Reus V I; Escamilla M; Spesny M; Smith L; Service S; Gallegos A; Meza L; Batki S; Vinogradov S; Leon P; Sandkuijl L A
- CS Center for Neurobiology and Psychiatry, University of California, San Francisco 94143, USA.
- NC MH49499 (NIMH) MH48695 (NIMH) MH00916 (NIMH)
- SO AMERICAN JOURNAL OF MEDICAL GENETICS, (1996 May 31) 67 (3) 254-63. Journal code: 3L4. ISSN: 0148-7299.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals

EM 199702

EW 19970204

Despite the evidence that major gene effects exist for ABbipolar disorder (BP), efforts to map BP loci have so far been unsuccessful. A strategy for mapping BP loci is described, focused on investigation of large pedigrees from a genetically homogenous population, that of Costa Rica. This approach is based on the use of a conservative definition of the BP phenotype in preparation for whole genome screening with polymorphic markers. Linkage simulation analyses are utilized to indicate the probability of detecting evidence suggestive of linkage, using these pedigrees. These analyses are performed under a series of single locus models, ranging from recessive to nearly dominant, utilizing both lod score and affected pedigree member analyses. Additional calculations demonstrate that with any of the models employed, most of the information for linkage derives from affected rather than unaffected individuals.

L17 ANSWER 23 OF 50 MEDLINE

DUPLICATE 12

AN 96348619 MEDLINE

DN 96348619

- TI Use of linkage disequilibrium approaches to map genes for bipolar disorder in the Costa Rican population.
- AU Escamilla M A; Spesny M; Reus V I; Gallegos A; Meza L; Molina J; Sandkuijl L A; Fournier E; Leon P E; Smith L B; Freimer N B
- CS Department of Psychiatry, University of California at San Francisco 94143, USA.
- NC MH 00916 (NIMH) MH 49499 (NIMH)
- SO AMERICAN JOURNAL OF MEDICAL GENETICS, (1996 May 31) 67 (3) 244-53. Journal code: 3L4. ISSN: 0148-7299.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199702
- EW 19970204
- AB Linkage disequilibrium (LD) analysis provides a powerful means for screening the genome to map the location of disease genes, such as those for bipolar disorder (BP
 -). As described in this paper, the population of the Central Valley of Costa Rica, which is descended from a small number of founders, should be suitable for LD mapping; this assertion is supported by reconstruction of extended haplotypes shared by distantly related individuals in this population suffering low-frequency hearing loss (LFHL1), which has previously been mapped by linkage analysis. A sampling strategy is described for applying LD methods to map genes

for BP, and clinical and demographic characteristics of an initially collected sample are discussed. This sample will provide a complement to a previously collected set of Costa Rican BP families which is under investigation using standard linkage analysis.

- L17 ANSWER 24 OF 50 BIOSIS COPYRIGHT 1999 BIOSIS
- AN 1996:556289 BIOSIS
- DN PREV199699278645
- TI A complete genome screen for genes predisposing to severe bipolar disorder in two Costa Rican pedigrees.
- AU McInnes, L. A. (1); Escamilla, M. A. (1);
 Service, S. K. (1); Reus, V. I. (1); Leon,
 P.; Silva, S.; Rojas, E.; Spesny, M.; Baharloo, S. (1); Tobey,
 C. (1); Batki, S. (1); Vinogradov, S. (1); Meza, L.; Gallegos, A.;
 Fournier, E.; Smith, L. B. (1); Barondes, S. H. (1); Sandkuijl,
 L. A.; Freimer, N. B. (1)
- CS (1) Univ. Calif. San Francisco, San Francisco, CA USA
- SO American Journal of Human Genetics, (1996) Vol. 59, No. 4 SUPPL., pp. A227.

 Meeting Info.: 46th Annual Meeting of the American Society of Human Genetics San Francisco, California, USA October 29-November 2, 1996 ISSN: 0002-9297.
- DT Conference
- LA English
- L17 ANSWER 25 OF 50 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 95:712605 SCISEARCH
- GA The Genuine Article (R) Number: RW687
- TI ATTITUDES TOWARD BIPOLAR DISORDER AND PREDICTIVE GENETIC TESTING AMONG PATIENTS AND PROVIDERS
- AU SMITH L B (Reprint); SAPERS B; REUS V I; FREIMER N
- CS UNIV CALIF SAN FRANCISCO, SAN FRANCISCO, CA, 00000
- CYA USA
- SO AMERICAN JOURNAL OF HUMAN GENETICS, (OCT 1995) Vol. 57, No. 4, Supp. S, pp. 1735.
 ISSN: 0002-9297.
- DT Conference; Journal
- FS LIFE; CLIN
- LA ENGLISH
- REC No References
- L17 ANSWER 26 OF 50 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 95:712001 SCISEARCH
- GA The Genuine Article (R) Number: RW687
- A COMPLETE GENOME SEARCH FOR GENETIC-LOCI PREDISPOSING TO BIPOLAR DISORDER (BP) IN 2 COSTA-RICAN PEDIGREES

- AU MCINNES L A (Reprint); ESCAMILLA M A; REUS
 V I; SPESNY M; LEON P; ROJAS E; TYLER D; BAHARLOO S;
 BLANKENSHIP K; BATKI S; VINOGRADOV S; MEZA L; GALLEGOS A; FOURNIER
 E; SERVICE S; SMITH L; SILVA S; SANDKUIJL L;
 FREIMER N B
- CS UNIV CALIF SAN FRANCISCO, SAN FRANCISCO, CA, 94143; UNIV COSTA RICA, SAN JOSE, COSTA RICA; ERASMUS UNIV ROTTERDAM, ROTTERDAM, NETHERLANDS; LEIDEN UNIV, LEIDEN, NETHERLANDS
- CYA USA; COSTA RICA; NETHERLANDS
- SO AMERICAN JOURNAL OF HUMAN GENETICS, (OCT 1995) Vol. 57, No. 4, Supp. S, pp. 1134.
 ISSN: 0002-9297.
- DT Conference; Journal
- FS LIFE; CLIN
- LA ENGLISH
- REC No References
- L17 ANSWER 27 OF 50 MEDLINE
- AN 96004344 MEDLINE
- DN 96004344
- TI Mapping genes for psychiatric disorders and behavioral traits.
- AU McInnes L A; Freimer N B
- CS Department of Psychiatry, University of California San Francisco 94143, USA..
- NC K21 MH00916 (NIMH) RO1 MH49499 (NIMH) RO1 MH47563 (NIMH)
- SO CURRENT OPINION IN GENETICS AND DEVELOPMENT, (1995 Jun) 5 (3) 376-81. Ref: 41 Journal code: BJC. ISSN: 0959-437X.
- CY ENGLAND: United Kingdom
- DT Journal; Article; (JOURNAL ARTICLE)
 General Review; (REVIEW)
 (REVIEW, ACADEMIC)
- LA English
- FS Priority Journals
- EM 199601
- AB In the past year, some of the most exciting findings in the genetic investigation of mammalian behavior have been obtained through mapping and through gene manipulation studies in the mouse system. These include the localization of a gene for circadian periodicity in the mouse, gene knockouts of serotonin receptors, and the development of a transgenic model of Alzheimer's disease. The recent development of genetic maps covering the entire human genome and the implementation of new approaches to genetic analysis may now facilitate elucidation of complex behaviors in humans, particularly psychiatric disorders.
- L17 ANSWER 28 OF 50 BIOSIS COPYRIGHT 1999 BIOSIS
 Searcher: Shears 308-4994

- AN 1995:478057 BIOSIS
- DN PREV199598492357
- TI Attitudes toward **bipolar disorder** and predictive genetic testing among patients and providers.
- AU Smith, L. B.; Sapers, B.; Reus, V. I.; Freimer, N. B.
- CS Univ. Calif., San Francisco, CA USA
- SO American Journal of Human Genetics, (1995) Vol. 57, No. 4 SUPPL., pp. A298.

 Meeting Info.: 45th Annual Meeting of the American Society of Human Genetics Minneapolis, Minnesota, USA October 24-28, 1995
 ISSN: 0002-9297.
- DT Conference
- LA English
- L17 ANSWER 29 OF 50 BIOSIS COPYRIGHT 1999 BIOSIS
- AN 1995:477456 BIOSIS
- DN PREV199598491756
- TI A complete genome search for genetic loci predisposing to bipolar disorder (BP) in two Costa Rican pedigrees.
- AU McInnes, L. A. (1); Escamilla, M. A. (1);
 Reus, V. I. (1); Spesny, M.; Leon, P.; Rojas, E.;
 Tyler, D.; Baharloo, S. (1); Blankenship, K. (1); Batki, S. (1);
 Vinogradov, S. (1); Meza, L.; Gallegos, A.; Fournier, F.;
 Service, S.; Smith, L. (1); Silva, S.; Sandkuijl, L.
 ; Freimer, N. B. (1)
- CS (1) Univ. Calif. San Francisco, San Francisco, CA USA
- SO American Journal of Human Genetics, (1995) Vol. 57, No. 4 SUPPL., pp. A197.

 Meeting Info.: 45th Annual Meeting of the American Society of Human Genetics Minneapolis, Minnesota, USA October 24-28, 1995
 ISSN: 0002-9297.
- DT Conference
- LA English
- L17 ANSWER 30 OF 50 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 95:711000 SCISEARCH
- GA The Genuine Article (R) Number: RW687
- TI LINKAGE DISEQUILIBRIUM ANALYSIS OF BIPOLAR DISORDER (BP) IN THE COSTA-RICAN POPULATION
- AU ESCAMILLA M A (Reprint); MCINNES L A; SPESNY M;
 REUS V I; SHIMAYOSHI N; TYLER D; BATKI S; VINOGRADOV S; MEZA
 L; GALLEGOS A; MOLINA J; FOURNIER E; LEON P; SERVICE
 S; SMITH L; SILVA S; SANDKUIJL L; FREIMER N B
- CS UNIV CALIF SAN FRANCISCO, SAN FRANCISCO, CA, 94143; UNIV COSTA RICA, SAN JOSE, COSTA RICA; ERASMUS UNIV ROTTERDAM, ROTTERDAM, NETHERLANDS; LEIDEN UNIV, LEIDEN, NETHERLANDS
- CYA USA; COSTA RICA; NETHERLANDS

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AMERICAN JOURNAL OF HUMAN GENETICS, (OCT 1995) Vol. 57, No. 4, Supp.
SO
     S, pp. 129.
     ISSN: 0002-9297.
DT
     Conference; Journal
     LIFE; CLIN
     ENGLISH
LA
REC No References
L17
     ANSWER 31 OF 50 BIOSIS COPYRIGHT 1999 BIOSIS
NA
     1995:476452 BIOSIS
DN
     PREV199598490752
TI
     Linkage disequilibrium analysis of bipolar
     disorder (BP) in the Costa Rican population.
ΑU
     Escamilla, M. A. (1); McInnes, L. A. (1);
     Spesny, M.; Reus, V. I. (1); Shimayoshi, N. (1); Tyler, D.
     (1); Batki, S. (1); Vinogradov, S. (1); Meza, L.; Gallegos, A.;
     Molina, J.; Fournier, E.; Leon, P.; Service, S.
     (1); Smith, L. (1); Silva, S.; Sandkuijl, L.;
     Freimer, N. B.
CS
     (1) Univ. California at San Francisco, San Francisco, CA USA
SO
     American Journal of Human Genetics, (1995) Vol. 57, No. 4 SUPPL.,
     Meeting Info.: 45th Annual Meeting of the American Society of Human
     Genetics Minneapolis, Minnesota, USA October 24-28, 1995
     ISSN: 0002-9297.
DT
     Conference
LA
     English
L17
     ANSWER 32 OF 50 MEDLINE
                                                         DUPLICATE 13
                  MEDLINE
AN
     95243279
DN
     95243279
ΤI
     Linkage analysis of bipolar illness with X-chromosome DNA markers: a
     susceptibility gene in Xq27-q28 cannot be excluded.
ΑU
     De bruyn A; Raeymaekers P; Mendelbaum K; Sandkuijl L A;
     Raes G; Delvenne V; Hirsch D; Staner L; Mendlewicz J; Van
     Broeckhoven C
CS
     Department of Biochemistry, Born Bunge Foundation, University of
     Antwerp (UIA), Belgium..
so
     AMERICAN JOURNAL OF MEDICAL GENETICS, (1994 Dec 15) 54 (4) 411-9.
     Journal code: 3L4. ISSN: 0148-7299.
CY
     United States
ידים
     Journal; Article; (JOURNAL ARTICLE)
LA
     English
FS
     Priority Journals
EΜ
     199507
AB
     Transmission studies have supported the presence of a susceptibility
     gene for bipolar (BP) illness on the
     X-chromosome. Initial linkage studies with color blindness (CB),
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glucose-6-phosphate dehydrogenase (G6PD) deficiency, and the blood Searcher : Shears

308-4994

coagulation factor IX (F9) have suggested that a gene for BP illness is located in the Xq27-q28 region. We tested linkage with several DNA markers located in Xq27-q28 in 2 families, MAD3 and MAD4, that previously were linked to F9 and 7 newly ascertained families of BP probands. Linkage was also examined with the gene encoding the alpha 3 subunit of the gamma-amino butyric acid receptor (GABRA3), a candidate gene for BP illness located in this region. The genetic data were analyzed with the LOD score method using age-dependent penetrance of an autosomal dominant disease gene and narrow and broad clinical models. In MAD3 and MAD4 the multipoint LOD score data suggested a localization of a BPI gene again near F9. In the 7 new families the overall linkage data excluded the Xq27-q28 region. However, if the families were grouped according to their proband's phenotype BPI or BPII, a susceptibility gene for BPI disorder at the DXS52-F8 cluster could not be excluded.

L17 ANSWER 33 OF 50 MEDLINE

DUPLICATE 14

- AN 94091480 MEDLINE
- DN 94091480
- TI Nonlinkage of bipolar illness to tyrosine hydroxylase, tyrosinase, and D2 and D4 dopamine receptor genes on chromosome 11.
- AU De bruyn A; Mendelbaum K; Sandkuijl L A; Delvenne V; Hirsch D; Staner L; Mendlewicz J; Van Broeckhoven C
- CS Born Bunge Foundation, Department of Biochemistry, University of Antwerp, Belgium.
- SO AMERICAN JOURNAL OF PSYCHIATRY, (1994 Jan) 151 (1) 102-6. Journal code: 3VG. ISSN: 0002-953X.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Abridged Index Medicus Journals; Priority Journals
- EM 199403
- ABOBJECTIVE: Previous linkage and allelic association studies using DNA polymorphisms, cosegregation of cytogenetic abnormalities with psychiatric illness, and assignment of genes involved in neutotransmitter metabolism suggested that chromosome 11 may harbor a gene predisposing to bipolar illness. The authors examined linkage in the families of 14 probands with bipolar illness, with the candidate genes tyrosine hydroxylase (TH), D4 dopamine receptor (DRD4) at 11p15, tyrosinase (TYR) at 11q14-q21, and D2 dopamine receptor (DRD2) at 11q22-q23, as well as with the c-Harvey-ras oncogene (HRAS) and insulin gene (INS), both located at 11p15, a region that previously showed linkage to bipolar illness. METHOD: The genetic data were analyzed with both lod score analysis (parametric) and affected-sib-pair analysis (nonparametric); both narrow and broad definitions of the clinical phenotype were used. Further influences of diagnostic uncertainties were accounted for by using diagnostic probability classes weighing the stability of each Searcher: Shears 308-4994

phenotype. RESULTS: Two-point linkage results excluded close linkage of bipolar illness to each candidate gene; negative results were also obtained when the narrow definition of the clinical phenotype was used. Moreover, multipoint linkage analysis of HRAS and INS excluded the 11p15 region encompassing both DRD4 and TH. In agreement with the negative linkage results, affected-sib-pair analysis did not show preferential sharing of marker alleles at any of the candidate genes. CONCLUSIONS: The negative results obtained under different genetic models exclude a frequent role for DRD4, TH, TYR, and DRD2 in the pathogenesis of bipolar illness.

- L17 ANSWER 34 OF 50 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 93:569255 SCISEARCH
- GA The Genuine Article (R) Number: LW335
- TI SEARCH FOR GENES PREDISPOSING TO BIPOLAR DISORDER USING MICROSATELLITES AND VAPSES
- AU DEBRUYN A (Reprint); SANDKUIJL L A; RAES G; MENDELBAUM K; SOUERY D; MENDLEWICZ J; VANBROECKHOVEN C
- CS UNIV INSTELLING ANTWERP, BORN BUNGE FDN, NEUROGENET LAB, B-2610 WILRIJK, BELGIUM; DIJKZIGT ACAD HOSP, DEPT CLIN GENET, ROTTERDAM, NETHERLANDS; FREE UNIV BRUSSELS, ERASME HOSP, DEPT PSYCHIAT, B-1050 BRUSSELS, BELGIUM
- CYA BELGIUM; NETHERLANDS
- SO AMERICAN JOURNAL OF HUMAN GENETICS, (SEP 1993) Vol. 53, No. 3, Supp. S, pp. 990.

 ISSN: 0002-9297.
- DT Conference; Journal
- FS LIFE; CLIN
- LA ENGLISH
- REC No References
- L17 ANSWER 35 OF 50 MEDLINE

DUPLICATE 15

- AN 93258405 MEDLINE
- DN 93258405
- Diminished support for linkage between manic depressive illness and X-chromosome markers in three Israeli pedigrees [see comments].
- CM Comment in: Nat Genet 1993 Jan;3(1):4-5 Comment in: Nat Genet 1994 Mar;6(3):224
- AU Baron M; Freimer N F; Risch N; Lerer B; Alexander J R; Straub R E; Asokan S; Das K; Peterson A; Amos J; et al
- CS New York State Psychiatric Institute, Columbia University College of Physicians and Surgeons, New York 10032..
- SO NATURE GENETICS, (1993 Jan) 3 (1) 49-55. Journal code: BRO. ISSN: 1061-4036.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199308

- The hypothesis that chromosomal region Xq27-28 harbours a gene for manic-depression has been a focus of interest in human genetics. X-linked inheritance of manic depressive illness has been re-examined in 3 multigeneration Israeli kindreds. Extension and re-evaluation of pedigree data, including new individuals, diagnostic follow-up, and analysis with DNA markers, shows greatly diminished support for linkage to Xq28. The peak lod scores in two of the pedigrees have dropped several lod units to clearly negative values at the RCP-F8-G6PD gene cluster. On the other hand, positive lod scores (Zmax = 2.09) are sustained in another pedigree at the same map location. None of the pedigrees show linkage to more proximal markers, including the Xq27 locus DXS98. Our analysis underscores the uncertainties in studying complex disorders.
- L17 ANSWER 36 OF 50 BIOSIS COPYRIGHT 1999 BIOSIS
- AN 1993:46001 BIOSIS
- DN PREV199344022851
- TI Genetic studies of manic depressive illness using large Central American pedigrees.
- AU Freimer, N. (1); Reus, V. (1); Sandkuijl, L. A.; Spesny, M.; Peterson, A. (1); Rojas, E.; Escamilla, M. (1); Di Rienzo, A. (1); Gallegos, A.; Leon, P.
- CS (1) Univ. Calif., San Francisco, Calif
- SO American Journal of Human Genetics, (1992) Vol. 51, No. 4 SUPPL., pp. A187.

 Meeting Info : 42nd Annual Meeting of the American Society of Hum

Meeting Info.: 42nd Annual Meeting of the American Society of Human Genetics, San Francisco, California, USA, November 9-13, 1992. AM J HUM GENET

- ISSN: 0002-9297.
- DT Conference
- LA English
- L17 ANSWER 37 OF 50 MEDLINE
- AN 89220556 MEDLINE
- DN 89220556
- TI Behavioral aspects of thyroid disease in women.
- AU Reus V I
- CS Department of Psychiatry, Langley Porter Neuropsychiatric Institute, University of California School of Medicine, San Francisco.
- SO PSYCHIATRIC CLINICS OF NORTH AMERICA, (1989 Mar) 12 (1) 153-65. Ref: 121
 Journal code: PBN. ISSN: 0193-953X.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
 General Review; (REVIEW)
 (REVIEW, TUTORIAL)
- LA English
- FS Priority Journals
- EM 198908

- AB Disturbances in thyroid regulation occur much more commonly in the female population and are not infrequently associated with behavioral symptomatology. Recognition of such gender differences in associational risk is important, for it may alter the clinical algorithm of assessment techniques and treatment interventions. From a scientific standpoint, interpretation of existing data and design of future studies exploring the relationship between thyroid regulation and behavior is likely to be improved if such sex differences are more commonly recognized and addressed.
- L17 ANSWER 38 OF 50 SCISEARCH COPYRIGHT 1999 ISI (R)
- AN 88:69014 SCISEARCH
- GA The Genuine Article (R) Number: L8448
- TI BIPOLAR DISORDER IN A 6-YEAR-OLD BOY A DIAGNOSIS BY PROXY
- AU JEMERIN J M (Reprint); ROEBUCK K; PHILIPS I; WIENER J M; REUS V; ZEGANS L S
- CS UNIV CALIF SAN FRANCISCO, LANGLEY PORTER NEUROPSYCHIAT INST, SCH MED, CHILDRENS INPATIENT UNIT, SAN FRANCISCO, CA, 94143 (Reprint)
- CYA USA
- JOURNAL OF THE AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY, (1988) Vol. 27, No. 1, pp. 133-137.
- DT Discussion; Journal
- FS SOCSEARCH
- LA ENGLISH
- REC Reference Count: 16
- L17 ANSWER 39 OF 50 BIOSIS COPYRIGHT 1999 BIOSIS
- AN 1987:475452 BIOSIS
- DN BR33:113593
- TI BASAL TSH BY IMMUNORADIOMETRIC ASSAY PREDICTS RESPONSE TO TRH.
- AU REUS V I; FREIMER N; WOLKOWITZ O; PEEKE H V S
- CS DEP. PSYCHIATRY, UCSF SCH. MED., 401 PARNASSUS AVE., SAN FRANCISCO, CALIF. 94143.
- SO XVIITH INTERNATIONAL CONGRESS OF THE INTERNATIONAL SOCIETY OF PSYCHONEUROENDOCRINOLOGY, CHAPEL HILL-DURHAM, NORTH CAROLINA, USA, JUNE 28-JULY 3, 1987. NEUROENDOCRINOL LETT. (1987) 9 (3), 206. CODEN: NLETDU. ISSN: 0172-780X.
- DT Conference
- FS BR; OLD
- LA English
- L17 ANSWER 40 OF 50 MEDLINE
- AN 86168059 MEDLINE
- DN 86168059
- TI Prediction of lithium dose: a mathematical alternative to the test-dose method.
- AU Zetin M; Garber D; De Antonio M; Schlegel A; Feureisen S; Fieve R; Jewett C; Reus V; Huey L Y

- SO JOURNAL OF CLINICAL PSYCHIATRY, (1986 Apr) 47 (4) 175-8. Journal code: HIC. ISSN: 0160-6689.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 198607
- AB A method of estimating the optimal dose of lithium is presented. The charts of 548 patients were reviewed to obtain data regarding the factors thought to affect the lithium dose, and an equation to estimate the dose was derived by stepwise multiple linear regression. The equation was also applied to 390 patients to determine the difference between the estimated and the actual dose; the mean difference was only 19 mg/day and the standard deviation was 325 mg/day. Lithium level, presence of a cyclic antidepressant, age, sex, and weight were found to be important variables for estimation of lithium dose.
- L17 ANSWER 41 OF 50 MEDLINE
- AN 85280681 MEDLINE
- DN 85280681
- TI Habituation and cortisol dysregulation in depression.
- AU Reus V I; Peeke H V; Miner C
- SO BIOLOGICAL PSYCHIATRY, (1985 Sep) 20 (9) 980-9. Journal code: A3S. ISSN: 0006-3223.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 198512
- The relationship between hypothalamic-pituitary-adrenal (HPA) dysregulation and skin conductance measures of habituation, stimulus specificity, and dishabituation was investigated in psychiatric patients exhibiting depressed affect. As a group, depressed patients showed a relative failure to dishabituate when compared with control subjects. Nonsuppression of cortisol following dexamethasone was associated with decreased response specificity as reflected in direct response measures and baseline skin conductance level. The impairment of response specificity to a novel stimulus is consistent with previous studies demonstrating a role for cortisol in the regulation of selective attention processes.
- L17 ANSWER 42 OF 50 MEDLINE
- AN 86043248 MEDLINE
- DN 86043248
- TI Effects of carbamazepine on noradrenergic mechanisms in affectively ill patients.
- AU Post R M; Rubinow D R; Uhde T W; Ballenger J C; Lake C R; Linnoila M; Jimerson D C; Reus V

SO PSYCHOPHARMACOLOGY, (1985) 87 (1) 59-63.

Journal code: QGI. ISSN: 0033-3158.

CY GERMANY, WEST: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 198602

Noradrenergic mechanisms have been postulated to account for the anticonvulsant and psychotropic effects of carbamazepine. In order to assess this possibility in man, cerebrospinal fluid (CSF) was obtained from affectively ill patients before and during treatment with carbamazepine (average duration 29 days) at doses averaging 860 mg/day, achieving blood levels of 8.86 micrograms/ml. Neither plasma nor CSF norepinephrine (NE) nor CSF 3-methoxy-4-hydroxy-phenylglycol (MHPG) was significantly altered by carbamazepine. Baseline medication-free values in 21 depressed patients were not predictive of the degree of subsequent clinical antidepressant response. CSF NE decreased in four manic patients treated with carbamazepine. The many effects of carbamazepine on noradrenergic mechanisms in animals are discussed in relationship to these first studies of carbamazepine in man.

L17 ANSWER 43 OF 50 MEDLINE

DUPLICATE 16

AN 83201716 MEDLINE

DN 83201716

TI Lithium carbonate and L-tryptophan in the treatment of bipolar and schizoaffective disorders.

AU Brewerton T D; Reus V I

NC RR-05755 (NCRR)

SO AMERICAN JOURNAL OF PSYCHIATRY, (1983 Jun) 140 (6) 757-60. Journal code: 3VG. ISSN: 0002-953X.

CY United States

DT (CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

LA English

FS Abridged Index Medicus Journals; Priority Journals

EM 198308

The authors review theoretical and clinical data supporting the hypothesis that L-tryptophan may potentiate the effects of lithium carbonate and report on a double-blind clinical comparison of lithium plus L-tryptophan and lithium plus placebo in 9 bipolar and 7 schizoaffective patients. Overall the combination of lithium and L-tryptophan resulted in significantly greater improvement. However, the results may have been confounded by the greater, although nonsignificant, doses of neuroleptics administered to the group receiving L-tryptophan. The authors discuss the interactions of lithium and L-trypotophan with the serotonin system.

L17 ANSWER 44 OF 50 MEDLINE

- AN 82179794 MEDLINE
- DN 82179794
- TI The "atypical" clinical picture of adolescent mania.
- AU Ballenger J C; Reus V I; Post R M
- SO AMERICAN JOURNAL OF PSYCHIATRY, (1982 May) 139 (5) 602-6. Journal code: 3VG. ISSN: 0002-953X.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Abridged Index Medicus Journals; Priority Journals
- EM 198208
- AB The authors examined the records of 9 manic patients under age 21 and 12 over age 30 for the incidence of "schizophrenic" and manic symptoms. The adolescent patients had a higher incidence of each of the 10 schizophreniform symptoms rated and significantly more delusions and ideas of reference. Significantly more adolescent patients had 3 or more schizophreniform symptoms; they also had symptoms typical of mania. These findings highlight the diagnostic importance of affective symptoms in psychotic adolescents with mixed symptoms and raise important clinical and theoretical questions about the atypical clinical picture of manic-depressive illness in young patients.
- L17 ANSWER 45 OF 50 MEDLINE
- AN 81059946 MEDLINE
- DN 81059946
- TI. Failure of naloxone to reduce manic symptoms.
- AU Davis G C; Extein I; Reus V I; Hamilton W; Post R M; Goodwin F K; Bunney W E Jr
- SO AMERICAN JOURNAL OF PSYCHIATRY, (1980 Dec) 137 (12) 1583-5. Journal code: 3VG. ISSN: 0002-953X.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Abridged Index Medicus Journals; Priority Journals
- EM 198103
- AB The authors conducted a double-blind placebo-controlled study in which patients with a wide range of manic symptoms were administered 20 mg of naloxone subcutaneously. Naloxone failed to improve manic severity, activation-arousal, or elation-grandiosity for intervals up to 3 hours. Global nurse ratings of mania did not improve over an 8-hour period. The authors suggest that the question of endorphin involvement in mania has not been resolved and recommend clinical studies with longer acting oral narcotic antagonists such as naltrexone.
- L17 ANSWER 46 OF 50 MEDLINE
- AN 79206945 MEDLINE
- DN 79206945

Clinical implications of state-dependent learning. TI Reus V I; Weingartner H; Post R M AU AMERICAN JOURNAL OF PSYCHIATRY, (1979 Jul) 136 (7) 927-31. SO Journal code: 3VG. ISSN: 0002-953X. CY United States Journal; Article; (JOURNAL ARTICLE) DT English LΑ Abridged Index Medicus Journals; Priority Journals FS 197910 EM Researchers have found that state-dependent learning is associated AΒ with the administration of a wide variety of drugs. Recent data suggest that similar phenomena may occur secondary to endogenous changes in neuroregulatory substances. The authors point out that awareness of such changes in cognitive processing strategies and abilities should help to further our understanding of the phenomenology of psychiatric states and should generate psychotherapeutic techniques designed to maximize the transfer of information across psychiatric states. ANSWER 47 OF 50 MEDLINE L17 MEDLINE 79163209 AN79163209 DN Lithium-induced thyrotoxicosis. TI Reus V I; Gold P; Post R ΑU AMERICAN JOURNAL OF PSYCHIATRY, (1979 May) 136 (5) 724-5. SO Journal code: 3VG. ISSN: 0002-953X. United States CY Journal; Article; (JOURNAL ARTICLE) DTLA Abridged Index Medicus Journals; Priority Journals FS 197908 EMANSWER 48 OF 50 MEDLINE L17 MEDLINE 80000759 AN80000759 DNd-Amphetamine: effects on memory in a depressed population. TI Reus V I; Silberman E; Post R M; Weingartner H ΑU BIOLOGICAL PSYCHIATRY, (1979 Apr) 14 (2) 345-56. SO Journal code: A3S. ISSN: 0006-3223. United States CY (CLINICAL TRIAL) DT (CONTROLLED CLINICAL TRIAL) Journal; Article; (JOURNAL ARTICLE) English T₁A Priority Journals FS EΜ 198001 The effect of intravenous d-amphetamine on memory functions in a AB group of depressed patients was examined in a double-blind

placebo-controlled study. Active drug administration resulted in an Searcher : Shears

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increase in verbal free recall but no change in cued recall, suggesting specific effects on memory processes. The level of psychological processing of the presented stimulus was shown to interact with drug-induced facilitation of recall. Improvement in memory of more shallowly processed material under amphetamine related significantly to subjects' base-line indices of noradrenergic function. Drug-induced changes in mood did not correlate with improvement in cognitive functioning. The interrelationships between biochemical determinants of mood and memory are discussed in light of these findings.

- DUPLICATE 17 ANSWER 49 OF 50 CAPLUS COPYRIGHT 1999 ACS L17
- 1979:449645 CAPLUS AN
- 91:49645 DN
- Effect of lithium carbonate on memory processes of bipolar TI affectively ill patients
- Reus, Victor I.; Targum, Steven D.; Weingartner, Herbert; ΑU Post, Robert M.
- Biol. Psychiatry Branch, Natl. Inst. Ment. Health, Bethesda, MD, CS 20014, USA
- Psychopharmacology (Berlin) (1979), 63(1), 39-42 SO CODEN: PSCHDL; ISSN: 0033-3158
- Journal DT
- English LA
- The effect of long-term Li2CO3 treatment on parameters of immediate, AB short-, and long-term memory was examd. in a group of bipolar affectively ill patients. The Li treatment group recalled significantly fewer words across trials on a verbal learning task than a group of bipolar affectively ill patients receiving no medication. The ability to consistently recall material for which prior learning had been demonstrated was also decreased and accounted for most of the variance in total no. of words recalled. Possible mechanisms of effect are discussed.
- L17 ANSWER 50 OF 50 BIOSIS COPYRIGHT 1999 BIOSIS
- 1978:235396 BIOSIS AN
- DNBA66:47893
- VASOPRESSIN IN AFFECTIVE ILLNESS. TI
- GOLD P W; GOODWIN F K; REUS V I ΑU
- CLIN. PSYCHOBIOL. BRANCH, NATL. INST. MENT. HEALTH, 9000 ROCKVILLE CS PIKE, ROOM 4S239, BUILD. 10, BETHESDA, MD. 20014, USA.
- LANCET, (1978) 1 (8076), 1233-1236. so CODEN: LANCAO. ISSN: 0023-7507.
- FS BA; OLD
- LΑ English
- Animal studies [rats] have revealed 2 important aspects of AB vasopressin function which made this peptide a suitable candidate for involvement in complex behavioral syndromes: vasopressin deficiency produces deficits of behavior which are reversed by Searcher : Shears 308-4994